PRODUCT MONOGRAPH INCLUDING PATIENT MEDICATION INFORMATION

PrOPFOLDA®

miglustat capsules 65 mg, Oral

Other alimentary tract and metabolism products, various alimentary tract and metabolism products

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RECENT MAJOR LABEL CHANGES

None at the time of the most recent authorization.

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Sections or subsections that are not applicable at the time of authorization are not listed. RECENT MAJOR LABEL CHANGES 2 PART I: HEALTH PROFESSIONAL INFORMATION 4 1 INDICATIONS....... 4 Pediatrics......4 1.1 1.2 2 CONTRAINDICATIONS......4 DOSAGE AND ADMINISTRATION...... 4 4.1 Dosing Considerations 4 4.2 Recommended Dose and Dosage Adjustment 5 4.4 4.5 5 6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING 7 WARNINGS AND PRECAUTIONS...... 7 7 7.1 7.1.1 7.1.2 7.1.3 Pediatrics 9 7.1.4 Geriatrics 9 8 8.1 8.2 8.3 8.4 Abnormal Laboratory Findings: Hematologic, Clinical Chemistry and Other

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PART I: HEALTH PROFESSIONAL INFORMATION

1 INDICATIONS

OPFOLDA (miglustat capsules) is an enzyme stabilizer indicated in combination with POMBILITI (cipaglucosidase alfa) for the treatment of adult patients with late-onset Pompe disease (acid α -glucosidase [GAA] deficiency) weighing \geq 40 kg.

OPFOLDA must be used in combination with cipaglucosidase alfa. Consult the Product Monograph of POMBILITI (cipaglucosidase alfa) for detailed information.

1.1 Pediatrics

Pediatrics (<18 years of age): No data are available to Health Canada; therefore, Health Canada has not authorized an indication for pediatric use.

1.2 Geriatrics

Geriatrics (≥65 years of age): Limited evidence from clinical studies suggests that use of OPFOLDA in combination with cipaglucosidase alfa in the geriatric population is not associated with differences in safety or effectiveness (see 4.2 Recommended Dose and Dosage Adjustment, 7.1.4 Geriatrics, and 10.3 Pharmacokinetics).

2 CONTRAINDICATIONS

OPFOLDA in combination with cipaglucosidase alfa is contraindicated in:

- Patients who are hypersensitive to miglustat or to any ingredient in the formulation, including any non-medicinal ingredient, or component of the container. For a complete listing, see 6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING.
- Women who are or may become pregnant. If OPFOLDA in combination with cipaglucosidase alfa is administered to women of reproductive potential, they should be informed of the potential hazard to the fetus (see 7.1.1 Pregnancy).
- Patients with a contraindication to cipaglucosidase alfa including:
 - patients with a history of life-threatening hypersensitivity or infusion-associated reactions (IARs) (e.g., anaphylaxis and severe cutaneous reactions) to cipaglucosidase alfa, or to any ingredient in the formulation, including any non-medicinal ingredient, or component of the container when rechallenge was unsuccessful. Refer to the Product Monograph of POMBILITI (cipaglucosidase alfa) for detailed information.

4 DOSAGE AND ADMINISTRATION

4.1 Dosing Considerations

- OPFOLDA must be used in combination with cipaglucosidase alfa. Refer to the Product Monograph of POMBILITI (cipaglucosidase alfa) before taking OPFOLDA.
- Verify the pregnancy status of female patients of reproductive potential prior to initiating OPFOLDA in combination with cipaglucosidase alfa (see 2 CONTRAINDICATIONS and 7.1.1 Pregnancy).

Patient response to treatment should be routinely evaluated based on a comprehensive evaluation
of all clinical manifestations of the disease. In the case of an insufficient response or intolerable
safety risks, discontinuation of OPFOLDA in combination with cipaglucosidase alfa treatment should
be considered. Both medicinal products should either be continued or discontinued.

Patients with renal impairment

- The safety and efficacy of OPFOLDA in combination with cipaglucosidase alfa therapy have not been evaluated in patients with renal impairment.
- Plasma concentrations and exposure of miglustat increased in patients with renal impairment (see 10.3 Pharmacokinetics), based on modeling. Reduce the OPFOLDA dosage in patients with moderate (CLcr 30 to 59 mL/minute) or severe (CLcr 15 to 29 mL/minute) renal impairment (see 4.2 Recommended Dose and Dosage Adjustment).

4.2 Recommended Dose and Dosage Adjustment

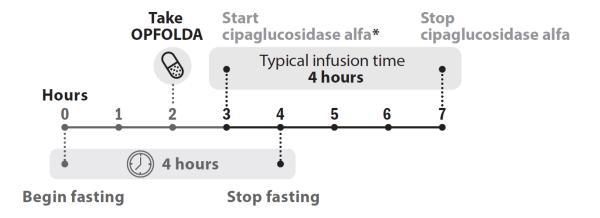
OPFOLDA must be used in combination with cipaglucosidase alfa. The recommended dosage of cipaglucosidase alfa is 20 mg/kg body weight administered every other week as an intravenous infusion. Refer to the Product Monograph of POMBILITI (cipaglucosidase alfa) for detailed information on dosage and administration recommendations for cipaglucosidase alfa.

The recommended dose of OPFOLDA is based on body weight and is to be taken orally every other week in adults aged 18 years and older:

- For patients weighing ≥50 kg, the recommended dose is 260 mg (4 capsules of 65 mg).
- For patients weighing ≥40 kg to <50 kg, the recommended dose is 195 mg (3 capsules of 65 mg).

OPFOLDA should be taken approximately 1 hour but no more than 3 hours before the start of the cipaglucosidase alfa infusion (see Figure 1).

Figure 1 - Dose Timeline



^{*} In the event of cipaglucosidase alfa infusion delay, the start of infusion should not exceed 3 hours from taking OPFOLDA.

Patients with renal impairment

The safety and efficacy of OPFOLDA in combination with cipaglucosidase alfa therapy have not been evaluated in patients with renal impairment.

For patients with mild renal impairment (CLcr 60-89 mL/minute), the recommended OPFOLDA dosage is the same as for patients with normal renal function. The recommended dosage of OPFOLDA in patients with moderate or severe renal impairment is shown in Table 1 (see 10.3 Pharmacokinetics).

Table 1 - Recommended OPFOLDA Dosage* in Patients with Moderate or Severe Renal Impairment

Patient Weight	Moderate Renal Impairment [#] (Clcr 30-59 mL/minute)	Severe Renal Impairment# (Clcr 15-29 mL/minute)
For patients weighing ≥50 kg	195 mg (3 capsules of 65 mg)	195 mg (3 capsules of 65 mg)
For patients weighing ≥40 kg to <50 kg	130 mg (2 capsules of 65 mg)	130 mg (2 capsules of 65 mg)

^{*} Based on modeling.

Geriatric use (≥65 years)

No dose adjustment is required in patients ≥65 years of age (see 7.1.4 Geriatrics and 10.3 Pharmacokinetics).

Pediatric use (<18 years)

Health Canada has not authorized an indication for pediatric use (see 1 INDICATIONS).

4.4 Administration

OPFOLDA is for oral use and should be taken on an empty stomach. The patient must fast 2 hours before and 2 hours after taking OPFOLDA (see Figure 1).

Swallow the OPFOLDA capsules whole only with unsweetened beverages, including water, tea and/or coffee with no cream, sugar, or sweeteners. Do not consume other beverages or food during the 4-hour fasting period (see Figure 1). Two hours after taking OPFOLDA, the patient can resume normal eating and drinking.

Cipaglucosidase alfa (20 mg/kg body weight) is to be administered by intravenous infusion and should start 1 hour after taking OPFOLDA. Refer to the Product Monograph of POMBILITI (cipaglucosidase alfa) for detailed information on the administration of cipaglucosidase alfa.

4.5 Missed Dose

If the OPFOLDA dosage is missed, do not start the cipaglucosidase alfa infusion alone, and re-start the treatment of these 2 medicines immediately as soon as possible, as detailed in Figure 1. If cipaglucosidase alfa infusion is missed or delayed greater than 3 hours since taking OPFOLDA, cipaglucosidase alfa should not be administered and treatment of these 2 medicines should be rescheduled at least 24 hours after OPFOLDA was last taken. If OPFOLDA and cipaglucosidase alfa are both missed, re-start treatment as soon as possible as detailed in Figure 1.

[#] Renal function classified by CLcr (creatinine clearance) based on the Cockcroft-Gault equation.

5 OVERDOSAGE

There is no experience with overdose of OPFOLDA and/or cipaglucosidase alfa.

In the event of an overdose, supportive medical care should be administered immediately including consulting with a healthcare professional and close observation of the clinical status of the patient.

For the most recent information in the management of a suspected drug overdose, contact your regional poison control centre or Health Canada's toll-free number, 1-844 POISON-X (1-844-764-7669).

6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING

Table 2 - Dosage Forms, Strengths, Composition and Packaging

Route of Administration	Dosage Form / Strength/Composition	Non-medicinal Ingredients
Oral	capsule, 65 mg miglustat	black iron oxide, colloidal silicon dioxide, gelatin, magnesium stearate, microcrystalline cellulose, pharmaceutical ink, pregelatinized starch (maize), sucralose, titanium dioxide

Each capsule contains 65 mg of miglustat. It is a hard gelatin capsule with a gray opaque cap and a white opaque body, size 2 (6.4 x 18.00 mm). Each capsule is printed with "AT2221" in black ink on the body.

OPFOLDA hard capsules are supplied in a 40 cc HDPE bottle (4 count and 24 count) with a 33 mm white polypropylene child resistant closure with induction seal.

7 WARNINGS AND PRECAUTIONS

General

OPFOLDA must be administered in combination with cipaglucosidase alfa. Refer to the Product Monograph of POMBILITI (cipaglucosidase alfa) for a detailed description of additional risks for cipaglucosidase alfa including, but not limited to, severe hypersensitivity reactions, infusion-associated reactions, immune complex-related reactions, and risk of acute cardiorespiratory failure in susceptible patients.

Carcinogenesis and Genotoxicity

Evidence of carcinogenicity and genotoxicity with OPFOLDA is limited to non-clinical findings (see 16 NON-CLINICAL TOXICOLOGY).

Driving and Operating Machinery

No studies on the effects on the ability to drive or to use machinery have been performed with OPFOLDA in combination with cipaglucosidase alfa. Since dizziness, hypotension, and somnolence have been reported as adverse reactions, OPFOLDA in combination with cipaglucosidase alfa may have minor influence on the ability to drive and use machines. Caution is required when driving or operating a vehicle or potentially dangerous machinery.

Reproductive Health

Advise women of childbearing potential to use effective contraception during treatment and for 4 weeks after the last dose of OPFOLDA in combination with cipaglucosidase alfa (see 16 NON-CLINICAL TOXICOLOGY). Based on findings from animal reproduction studies, OPFOLDA in combination with cipaglucosidase alfa may cause embryo-fetal harm when administered to a pregnant female and is contraindicated in women of childbearing potential not using reliable contraception (see 2 CONTRAINDICATIONS, 7.1.1 Pregnancy, and 16 NON-CLINICAL TOXICOLOGY).

Fertility

There are no clinical data on the effects of OPFOLDA in combination with cipaglucosidase alfa therapy on fertility.

An increase in pre-implantation loss was noted with miglustat in combination with cipaglucosidase alfa, and with miglustat alone in reproductive and developmental toxicity studies in male rats mated with untreated females and in females mated with untreated males (see 16 NON-CLINICAL TOXICOLOGY). Based on pre--implantation loss observed in female and male rats, OPFOLDA in combination with cipaglucosidase alfa may impair human female and male fertility.

Teratogenic Risk

Based on findings from animal reproduction studies, OPFOLDA in combination with cipaglucosidase alfa may cause embryo-fetal harm when administered to a pregnant female and is contraindicated during pregnancy (see 2 CONTRAINDICATIONS, 7.1.1 Pregnancy, and 16 NON-CLINICAL TOXICOLOGY). In a rabbit embryo-fetal development study, great vessel and cardiac malformations were increased in offspring of pregnant rabbits treated with oral miglustat in combination with cipaglucosidase alfa at 3-fold and 16-fold, respectively, the maximum recommended human dose (MRHD) based on plasma AUC exposure (see 16 NON-CLINICAL TOXICOLOGY).

7.1 Special Populations

7.1.1 Pregnancy

OPFOLDA in combination with cipaglucosidase alfa is contraindicated during pregnancy based on findings from animal studies and due to its unknown potential risk in humans (see 2 CONTRAINDICATIONS). There are no available human data on OPFOLDA in combination with cipaglucosidase alfa use in pregnant women. Cipaglucosidase alfa in combination with miglustat as well as with miglustat alone have shown reproductive and developmental toxicity in animal studies (i.e., rat and rabbit), including pre-implantation loss, and clusters of great vessel and cardiac malformations in offspring (see 16 NON-CLINICAL TOXICOLOGY).

7.1.2 Breast-feeding

There are no data on the presence of OPFOLDA alone or in combination with cipaglucosidase alfa in human breast milk, the effects on the breastfed infant, or the effects on milk production. Available pharmacodynamic/toxicological data in animals have shown secretion of miglustat in milk (see 16 NON-CLINICAL TOXICOLOGY). Because of a risk to the breast-feeding new-borns/infants that cannot be excluded, advise women that breast-feeding is not recommended while on treatment with OPFOLDA in combination with cipaglucosidase alfa.

7.1.3 Pediatrics

Pediatrics (<18 years): No data are available to Health Canada; therefore, Health Canada has not authorized an indication for pediatric use.

7.1.4 Geriatrics

There is limited clinical data with OPFOLDA in combination with cipaglucosidase alfa in elderly patients. Limited data suggests that use of OPFOLDA in combination with cipaglucosidase alfa in the geriatric population is not associated with differences in safety or effectiveness. As clinical trials of OPFOLDA in combination with cipaglucosidase alfa did not include sufficient numbers of patients ≥65 years of age treated with OPFOLDA in combination with cipaglucosidase alfa, no definitive conclusions can be drawn to determine whether they respond differently from younger adult patients. Of the total number of patients treated with OPFOLDA in combination with cipaglucosidase alfa in clinical trials for late-onset Pompe disease (LOPD), 17 (11%) subjects were 65 to 74 years of age, and none were 75 years of age and older.

8 ADVERSE REACTIONS

8.1 Adverse Reaction Overview

The most common adverse reactions (≥5%) reported in OPFOLDA in combination with cipaglucosidase alfa treated subjects in all 3 studies were headache, diarrhoea, fatigue, nausea, abdominal pain, pyrexia, and chills.

The most commonly reported adverse reaction only attributable to miglustat 65 mg was constipation (1.3%).

Reported serious adverse reactions in all 3 studies were urticaria (2.0%), anaphylaxis (1.3%), chills (0.7%), cough (0.7%), flushing (0.7%), pyrexia (0.7%), presyncope (0.7%), dyspnoea (0.7%), pharyngeal oedema (0.7%), wheezing (0.7%), and hypotension (0.7%).

8.2 Clinical Trial Adverse Reactions

Clinical trials are conducted under very specific conditions. Therefore, the frequencies of adverse reactions observed in the clinical trial may not reflect frequencies observed in clinical practice and should not be compared to frequencies reported in the clinical trials of another drug.

The pooled safety analysis from 3 clinical trials included 151 adult patients with LOPD treated with OPFOLDA in combination with cipaglucosidase alfa including:

- 85 patients in the randomized, double-blind, active-controlled trial in adults
- 37 patients in the open-label extension trial where patients switched from an approved alglucosidase alfa product to OPFOLDA in combination with cipaglucosidase alfa
- 29 patients in an open-label trial

The assessment of adverse reactions was informed by subjects treated with OPFOLDA in combination with cipaglucosidase alfa across 3 clinical trials. The total mean duration of exposure was 28.0 months.

Phase 3 clinical trial (PROPEL) included 123 adult patients with LOPD who were randomized to receive treatment with OPFOLDA in combination with cipaglucosidase alfa or alglucosidase alfa in combination with placebo. Adverse reactions from the Phase 3 clinical trial (PROPEL) are listed by MedDRA system organ class in Table 3.

Table 3 - Summary of Adverse Reactions Reported in ≥2% of Patients in Phase 3 Clinical Trial (PROPEL)

	OPFOLDA in Combination with Cipaglucosidase alfa	Alglucosidase alfa in Combination with Placebo
	N = 85	N = 38
	n (%)	n (%)
Cardiac disorders		
Tachycardia ^{‡4}	2 (2.4%)	0
Gastrointestinal disorders		
Abdominal distension	3 (3.5%)	2 (5.3%)**
Abdominal pain ^{‡1}	2 (2.4%)	4 (10.5%)
Diarrhoea	5 (5.9%)	2 (5.3%)**
Nausea	2 (2.4%)**	5 (13.2%)
General disorders and administration site conditions		
Chills	2 (2.4%)*	0
Pyrexia	3 (3.5%)	1 (2.6%)*
Musculoskeletal and connective tissue disorders		
Muscle spasms	2 (2.4%)	0
Nervous system disorders		
Dizziness	4 (4.7%)*	2 (5.3%)*
Dysgeusia	2 (2.4%)	0
Headache ^{‡5}	7 (8.2%)	3 (7.9%)
Respiratory, thoracic and mediastinal disorders		
Dyspnoea	3 (3.5%)	0

	OPFOLDA in Combination with Cipaglucosidase alfa N = 85 n (%)	Alglucosidase alfa in Combination with Placebo N = 38 n (%)
Skin and subcutaneous tissue disorder		
Pruritus	2 (2.4%)*	2 (5.3%)
Rash ^{‡2}	3 (3.5%)*	0
Urticaria ^{‡3}	2 (2.4%)*	0
Vascular disorders		
Flushing	2 (2.4%)*	0

^{*} Related to cipaglucosidase alfa/alglucosidase alfa only

8.3 Less Common Clinical Trial Adverse Reactions

Adverse reactions from the clinical trials reported in less than 2% of patients from pooled analysis of 3 clinical trials were:

Gastrointestinal disorders: abdominal discomfort[†], constipation[†], dyspepsia*, oesophageal pain*, oesophageal spasm, oral discomfort*, oral pain, swollen tongue*

General disorders and administration site conditions: asthenia, chest discomfort*, facial pain, feeling jittery[†], infusion site pain*, infusion site swelling*, malaise*, non-cardiac chest pain, pain*, peripheral swelling, swelling face*

Immune system disorders: anaphylactic reaction^{‡2}, hypersensitivity

Injury, poisoning and procedural complications: skin abrasion*

Investigations: body temperature fluctuation*, lymphocyte count decreased, platelet count decreased

Musculoskeletal and connective tissue disorders: arthralgia, flank pain, muscle fatigue, muscular weakness, musculoskeletal stiffness

Nervous system disorders: balance disorder, burning sensation*, dysgesusia, migraine^{‡1}, paraesthesia, presyncope*

Respiratory, thoracic and mediastinal disorders: asthma, cough*, oropharyngeal discomfort*, pharyngeal oedema*, wheezing*

Skin and subcutaneous tissue disorder: skin discolouration, skin oedema*

Vascular disorders: hypotension, pallor

^{**} Related to OPFOLDA/placebo only

[‡] Adverse reactions that are medically related were grouped to a single preferred term.

¹ Abdominal pain, abdominal pain upper, and abdominal pain lower are grouped under abdominal pain.

² Rash, rash erythematous, and rash macular are grouped under rash.

³ Urticaria, mechanical urticaria, and urticaria rash are grouped under urticaria.

⁴ Tachycardia and sinus tachycardia are grouped under tachycardia.

⁵ Headache, migraine, and migraine with aura are grouped under headache.

8.4 Abnormal Laboratory Findings: Hematologic, Clinical Chemistry and Other Quantitative Data

There were no clinically significant abnormal laboratory findings with OPFOLDA in combination with cipaglucosidase alfa in the clinical studies.

8.5 Post-Market Adverse Reactions

No new safety findings which alter the safety profile of OPFOLDA in combination with cipaglucosidase alfa have been observed post-marketing.

9 DRUG INTERACTIONS

9.2 Drug Interactions Overview

No interaction studies have been performed using OPFOLDA or with OPFOLDA in combination with cipaglucosidase alfa.

9.3 Drug-Behaviour Interactions

The interaction of OPFOLDA or OPFOLDA in combination with cipaglucosidase alfa with individual behavioural risks (e.g. cigarette smoking, cannabis use, and/or alcohol consumption) has not been studied.

9.4 Drug-Drug Interactions

In Vitro Studies Cytochrome P450 (CYP) Enzymes: Miglustat is not a known substrate or inhibitor of CYP1A2, CYP2A6, CYP2C9, CYP2C19, CYP2D6, CYP2E1, CYP3A4, or CYP4A11.

Transporter Systems: Miglustat is a substrate of P-gp, OCT1, and OCT2 but not a substrate of OAT1, OAT3, OATP1B1, OATP1B3, MATE1, MATE2-K, BCRP, or BSEP. Miglustat is an inhibitor of MATE1, but is not an inhibitor of OAT1, OAT3, OCT1, OCT2, OATP1B1, OATP1B3, MATE2-K, P-gp, BCRP, or BSEP.

No clinical drug interaction studies have been performed with OPFOLDA.

9.5 Drug-Food Interactions

A significant food effect was observed. Co-administration of miglustat with food resulted in delayed absorption by approximately 2 hours and decreased C_{max} by 36% in healthy subjects. Patients should fast for 2 hours before and for 2 hours after taking OPFOLDA (see 4.4 Administration).

9.6 Drug-Herb Interactions

Interactions with herbal products have not been established.

9.7 Drug-Laboratory Test Interactions

Interactions with laboratory tests have not been established.

^{*} Related to cipaglucosidase alfa only; † Related to miglustat only; ‡ Adverse reactions that are medically related were grouped to a single preferred term; 1 Migraine and migraine with aura are grouped under migraine; 2 Anaphylactic reaction, Anaphylaxis are grouped under Anaphylactic reaction. Anaphylactoid reaction is manually coded to Anaphylaxis.

10 CLINICAL PHARMACOLOGY

10.1 Mechanism of Action

Pompe disease (acid maltase deficiency, glycogen storage disease type II [GSD II], glycogenosis type II) is a rare metabolic myopathy caused by a deficiency of acid alpha-glucosidase (GAA) enzyme that degrades glycogen in the lysosome. GAA deficiency leads to progressive accumulation of intra lysosomal glycogen, defective autophagy, and disruption of cellular function, primarily in cells of smooth, cardiac, and skeletal muscle.

Miglustat binds with, stabilizes, and reduces inactivation of cipaglucosidase alfa in the blood after infusion. The bound miglustat is dissociated from cipaglucosidase alfa after it is internalized and transported into lysosomes. Miglustat alone has no pharmacological activity in cleaving glycogen.

10.2 Pharmacodynamics

In the Phase 3 trial, PROPEL, subjects treated with miglustat in combination with 20 mg/kg cipaglucosidase alfa (n = 84) showed a mean reduction of -31.5% (95% CI: -38.3%, -24.8%) in urinary glucose tetrasaccharide (Hex-4) after 52 weeks. The exposure-response relationship and time course of pharmacodynamic response for the safety and effectiveness of OPFOLDA have not been fully characterized.

10.3 Pharmacokinetics

Miglustat demonstrates dose proportional pharmacokinetics over a wide dose range of 50 mg to 1120 mg single dose. Miglustat maximum concentration (C_{max}) and area under the plasma concentration-time curve (AUC) increases proportionally over a dosage range from 130 mg to 260 mg (0.5 to 1 time the approved recommended dosage of 260 mg in patients weighing \geq 50 kg). At the recommended OPFOLDA clinical dose of 260 mg, the mean C_{max} was approximately 3000 ng/mL and the mean $AUC_{0-\infty}$ was approximately 25000 ng*h/mL.

Table 4 - Summary of Miglustat Pharmacokinetic Parameters in LOPD Patients at Clinical Dose

	Cohort	C _{max} ^a (ng/mL)	T _{max} ^b (h)	t½ ^c (h)	AUC _{0-∞} a (ng*h/mL)	CL _T c (L/h)	Vd ^c (L)
Miglustat 260 mg	1	3089 (28.8)	3.00 (0.92 - 4.05)	5.97 (18.1)	24938 (30.6)	10.8 (18.1)	93.9 (35.2)
Miglustat 260 mg	3	3000 (17.5)	2.60 (2.00 - 3.00)	5.77 (17.8)	25735 (16.5)	10.2 (15.1)	86.3 (28.4)

Abbreviations: $AUC_{0-\infty}$ = area under the curve from 0 to infinity; CL_T = total clearance following intravenous administration; C_{max} = maximum observed plasma concentration; $t_{1/2}$ = half-life; T_{max} = time to reach the maximum observed concentration;

V_d = terminal phase volume of distribution following oral administration

Note: Cohort 1: ambulatory ERT-experienced adults with LOPD; Cohort 3: ambulatory ERT-naïve adults with LOPD

Absorption

The rate of absorption (t_{max}) of miglustat was approximately 2 to 3 hours.

^a Geometric mean (CV%)

b Median (Min - Max)

^c Arithmetic mean (CV%)

Effect of food

A significant food effect was observed and resulted in a decreased C_{max} by 36% and delayed absorption by approximately 2 hours (see 4.4 Administration).

Metabolism

Miglustat is largely unmetabolised with <5% of a radiolabeled dose recovered as glucuronides.

Distribution

The apparent volume of distribution of miglustat was approximately 94 L in adult patients with LOPD.

Elimination

The apparent clearance of miglustat was approximately 10 L/hr. The terminal elimination half-life was approximately 6 hours. The major route of excretion of miglustat is renal.

Special Populations and Conditions

No clinically significant differences in the pharmacokinetics of miglustat were observed based on age (18 to 74 years) and sex.

Based on pooled population pharmacokinetic analysis, sex, age (18 to 74 years), ERT history and race/ethnicity did not have clinically meaningful effect on the exposure to miglustat in combination with cipaglucosidase alfa.

- **Pediatrics:** No data are available to Health Canada; therefore, Health Canada has not authorized an indication for pediatric use.
- Geriatrics: Based on the limited experience with the use of miglustat in combination with cipaglucosidase alfa therapy in patients above the age of 65 years old and a pooled population pharmacokinetic analysis, no dose adjustment is recommended in elderly patients.
- **Sex:** Based on a pooled population pharmacokinetic analysis, sex did not have a clinically meaningful effect on miglustat in combination with cipaglucosidase alfa exposures.
- **Hepatic Insufficiency:** The effect of hepatic impairment on the pharmacokinetics of miglustat is unknown. The pharmacokinetics of miglustat in combination with cipaglucosidase alfa therapy have not been evaluated in patients with hepatic impairment.
- Renal Insufficiency: The AUC_{0-24hr} of miglustat increased by 21%, 32%, and 41% in patients with mild (CLcr 60 to 89 mL/minute, estimated by Cockcroft-Gault), moderate (CLcr 30 to 59 mL/minute), and severe (CLcr 15 to 29 mL/minute) renal impairment, respectively, compared to patients with normal renal function based on modeling. Dosage reduction of OPFOLDA is recommended in patients with moderate and severe renal impairment (see 4 DOSAGE AND ADMINISTRATION). The effect of end stage renal disease on the pharmacokinetics of miglustat is unknown.

11 STORAGE, STABILITY AND DISPOSAL

Store at room temperature (15°C to 25°C).

Do not use if inner seal is missing or broken.

Keep out of reach and sight of children.

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

PART II: SCIENTIFIC INFORMATION

13 PHARMACEUTICAL INFORMATION

Drug Substance

Proper/Common name: miglustat

Chemical name: 1,5-(butylimino)-1,5-dideoxy-D-glucitol

Molecular formula and molecular mass: C₁₀H₂₁NO₄ and 219.28 g/mol

Structural formula:

Physicochemical properties: Miglustat is a white to off-white crystalline solid (powder). It is highly soluble in water (>1000 mg/mL as a free base).

14 CLINICAL TRIALS

14.1 Clinical Trials by Indication

Table 5 - Summary of Patient Demographics for Clinical Trials in Late-onset Pompe Disease

Study #	Study design	Dosage, route of administration and duration	Study subjects (n)	Mean age (Range)	Sex
ATB200-03 (PROPEL)	Multicenter, double-blind, randomized, active-controlled	20 mg/kg cipaglucosidase alfa IV + 195/260 mg miglustat oral capsules every other week Or	123*	46.8 years (19 to 74 years)	Male: 56 Female: 67
		20 mg/kg alglucosidase alfa IV + placebo oral capsules every other week			
		Duration: 52 weeks			

^{*} The Intent-to-Treat (ITT) population comprised 123 subjects. The efficacy population, excluding one outlier, consisted of 122 subjects. IV: intravenous

A 52-week Phase 3 randomized, double-blind, active-controlled, international, multi-center clinical trial was conducted in adult subjects (≥18 years) diagnosed with late-onset Pompe disease and weighing ≥40 kg. Subjects were randomized 2:1 to receive OPFOLDA in combination with cipaglucosidase alfa or alglucosidase alfa plus placebo every other week for 52 weeks. The efficacy population included a total of 122 subjects of which 95 (78%) had received prior ERT with alglucosidase alfa (ERT-experienced) and 27 (22%) had never received ERT (ERT-naïve).

Demographics, baseline 6-minute walk distance (6MWD), and sitting percent predicted forced vital capacity (FVC) were representative of the population and generally similar in the 2 treatment arms. More than two thirds (67%) of ERT-experienced subjects had been on ERT treatment for more than 5 years prior to entering the PROPEL study (mean of 7.4 years).

Efficacy endpoints included assessment of motor function and pulmonary function.

Motor Function

6-Minute Walk Distance (6MWD) at 52 weeks

The efficacy results of 6MWD are summarized in Table 6.

ERT-experienced Vs. ERT-naïve patients:

The ERT-experienced subjects treated with OPFOLDA in combination with cipaglucosidase alfa (n = 65) had a mean improvement in walk distance from baseline to Week 52 of 16.5 meters as compared to a mean of 0.6 meters for alglucosidase alfa plus placebo (n = 30), indicating a OPFOLDA in combination with cipaglucosidase alfa treatment effect of 16.1 meters (95% CI: -0.1, 32.3).

The ERT-naïve subjects treated with OPFOLDA in combination with cipaglucosidase alfa (n = 20) had a mean improvement in walk distance from baseline to Week 52 of 33.4 meters as compared to 38.3 meters for alglucosidase alfa plus placebo (n = 7), indicating a OPFOLDA in combination with cipaglucosidase alfa treatment effect of -4.9 meters (95% CI: -45.4, 35.6).

Pulmonary Function

Sitting percent predicted Forced Vital Capacity (FVC) at 52 weeks

The efficacy results of FVC are summarized in Table 6.

ERT-experienced Vs. ERT-naïve patients:

The ERT-experienced subjects treated with OPFOLDA in combination with cipaglucosidase alfa (n = 64) showed a mean change in FVC from baseline to Week 52 of -0.6% as compared with subjects treated with alglucosidase alfa and placebo of -3.5% (n = 30), indicating a OPFOLDA in combination with cipaglucosidase alfa treatment effect of 2.9% (95% CI: 0.5%, 5.3%).

The ERT-naïve subjects treated with OPFOLDA in combination with cipaglucosidase alfa (n = 20) showed a mean change in FVC from baseline to Week 52 of -5.2% as compared with subjects treated with alglucosidase alfa and placebo (n = 7) of -2.5%, indicating a OPFOLDA in combination with cipaglucosidase alfa treatment effect of -2.7% (95% CI: -9.1%, 3.9%).

Table 6 - Results of Key Endpoints at Duration 52 weeks in All Subjects from PROPEL Study*

	Cipaglucosidase alfa- OPFOLDA (N = 85)	Alglucosidase alfa-placebo (N = 37)		
Primary endpoint				
6MWD				
Baseline				
n	n = 85	n = 37		
Mean (SD)	357.9 (111.8)	351.0 (121.3)		
Median	359.5	365.5		
Change from baseline at Week 52				
n	n = 85	n = 37		
Mean (SD)	20.5 (41.3)	7.7 (40.0)		
(95% CI)	(11.6, 29.4)	(-5.6, 21.1)		
Median	12.7	1.4		
Change to Week 52				
Diff. in LS means (SE)	13.1 ^a (7.4)			
(95% CI)	(-1.5, 27.7)			
Key Secondary endpoint				
Sitting Percent Predicted FVC				
Baseline				
n	n = 85	n = 37		
Mean (SD)	70.7 (19.6)	69.7 (21.5)		
Median	70.0	71.0		
Change from baseline at Week 52				
n	n = 84	n=37		
Mean (SD)	-1.5 (6.0)	-3.7 (4.4)		
(95% CI)	(-2.8, -0.2)	(-5.1, -2.2)		
Median	-2.2	-3.6		
Change to Week 52		•		
Diff. in LS means (SE)	2.1	1 ^b (1.1)		
(95% CI)		.0, 4.3)		

Abbreviations: CI: confidence interval; Diff.: difference; LS: least square; SD: standard deviation; SE: standard error

15 MICROBIOLOGY

No microbiological information is required for this drug product.

^{*} The value of one subject was an outlier and was excluded from the analysis.

^a Missing values at Week 52 were imputed using the data from the control group. The treatment difference of the mean was estimated by non-parametric analysis of covariance which included treatment, gender, ERT status, baseline 6MWD, age, weight, and height in the model.

^b Missing values at Week 52 were imputed using the data from the control group. The treatment difference of the mean was estimated by analysis of covariance which included treatment, gender, ERT status, baseline FVC, age, weight, and height in the model.

16 NON-CLINICAL TOXICOLOGY

General Toxicology:

Animal toxicology findings of OPFOLDA are based, in part, from studies from another miglustat product. In studies conducted for this other miglustat product, the following effects were noted following daily administration.

The main effects common to all species tested (mouse, rat, rabbit, dog and monkey) were weight decreases in body weight gain and food consumption, accompanied by diarrhea, and, at higher doses, damage to the gastrointestinal mucosa (erosions and ulceration). Further, effects seen in animals at doses that result in exposure levels moderately higher than the clinical exposure level were changes in lymphoid organs in all species tested, transaminase changes, vacuolation of thyroid and pancreas, cataracts, nephropathy, and myocardial changes in rats. These findings were considered to be secondary to deterioration of study animals and are not relevant for human risk assessment. Findings in dogs included tremor and absent corneal reflexes at 105 mg/kg/day (6 times the human therapeutic systemic exposure at 200 mg t.i.d., based on body surface area comparisons mg/m²) after a 4-week oral gavage toxicity study using doses of 35, 70, 105, and 140 mg/kg/day.

Cataracts were observed in rats at ≥420mg/kg/day (2 times the human therapeutic systemic exposure at 200 mg t.i.d., based on AUC) in a 52-week oral gavage toxicity study using doses of 180, 420, 840, and 1680 mg/kg/day.

Gastrointestinal (GI) necrosis, inflammation, and hemorrhage were observed in dogs at ≥85 mg/kg/day (5 times the human therapeutic systemic exposure at 200 mg t.i.d. based on body surface area comparisons, mg/m²) after a 2-week oral (capsule) toxicity study using doses of 85, 165, 495, and 825 mg/kg/day. Similar GI toxicity occurred in rats at 1200 mg/kg/day (4 times the human therapeutic systemic exposure at 200 mg t.i.d., based on AUC) in a 26-week oral gavage toxicity study using doses of 300, 600, and 1200 mg/kg/day. In monkeys, similar GI toxicity occurred at ≥750 mg/kg/day (3 times the human therapeutic systemic exposure at 200 mg t.i.d., based on AUC) following a 52-week oral gavage toxicity study using doses of 750 and 2000 mg/kg/day. In a 13-week repeat-dose toxicity study in cynomolgus monkeys, males and females were administered cipaglucosidase alfa intravenously both with and without orally administered miglustat, once every other week for 13 weeks (7 doses). Dose groups consisted of combination doses (50 mg/kg cipaglucosidase alfa with 25 mg/kg miglustat or 100 mg/kg cipaglucosidase alfa with 175 mg/kg miglustat), or 100 mg/kg cipaglucosidase alfa or 175 mg/kg miglustat administered alone. There were no changes attributable to cipaglucosidase alfa or miglustat or to their co-administration. The NOAEL for miglustat in this study with or without cipaglucosidase alfa co-administration was 175 mg/kg/dose, the highest dosage tested. At this dose level, the mean sex-averaged AUC_{0-t} levels were 204000 ng·h/mL, for miglustat alone, and 216000 ng·h/mL, when administered in combination with 100 mg/kg cipaglucosidase alfa. The corresponding margin of exposures (MOEs) were 10-fold and 11-fold human exposure at the maximum recommended human dose (MRHD), respectively, based on the mean gender sex-averaged AUC_{0-t}.

Carcinogenicity:

The carcinogenicity of OPFOLDA is based on studies from another miglustat product. Below are findings from the carcinogenicity studies with the other miglustat product.

Administration of miglustat to male and female Sprague Dawley rats for 100 weeks at dose levels of 30, 60 and 180 mg/kg/day resulted in an increased incidence of testicular interstitial cell (Leydig cell) hyperplasia and interstitial cell adenomas in male rats at all dose levels. NOAEL was not established, and the effect was not dose dependent. Mechanistic studies revealed that decreased prolactin production

may contribute to Leydig cell hyperplasia and adenomas in the rat. This is a rat-specific mechanism, which is considered to be of low relevance for humans. There were no significant increases in tumors in female rats or in male rats at other sites. Interstitial cell adenomas in rats with non-genotoxic compounds are generally considered to be of low relevance to humans.

Administration of miglustat to 300 male and female CD1 mice by oral gavage at dose levels of 210, 420 and 840/500 mg/kg/day (dose reduction after half a year) for 2 years resulted in an increased incidence of inflammatory, hyperplastic and, occasionally, neoplastic lesions in the large intestine in both sexes. Neoplasms were found in 0/50, 0/49, 1/50, 2/50 and 3/50 males and 0/50, 0/49, 0/49, 1/50 and 2/49 females treated at 0, 0, 210, 420 and 840/500 mg/kg/day, respectively. Trend tests were significant for males and females (males: p=0.005, females: p=0.017) whereas group-wise comparisons revealed a significant increase in incidence for males at the top dose of 840/500 mg/kg/day, only (p=0.007). Since intestinal effects were observed after oral but not intravenous administration of miglustat, the local exposure (in mg/kg/day) is considered to be relevant rather than the systemic exposure. The doses in this study corresponded to 49, 98 and 196/116 times the recommended human dose at 100 mg three times a day. Carcinomas in the large intestine occurred occasionally at all doses with a statistically significant increase in the high dose group. The relevance of these findings to humans cannot be excluded. There was no drug-related increase in tumor incidence in any other organ.

Genotoxicity:

The genotoxicity of OPFOLDA is based on studies from another miglustat product. Below are findings from the genotoxicity studies with the other miglustat product.

Miglustat was not mutagenic or clastogenic in a battery of in vitro and in vivo assays including the bacterial reverse mutation (Ames), chromosomal aberration (in human lymphocytes), gene mutation in mammalian cells (Chinese hamster ovary), and mouse micronucleus assays.

Reproductive and Developmental Toxicology:

In a segment I fertility and early embryonic development study in female rats were administered 70, 150 or 400 mg/kg body weight (bw) cipaglucosidase alfa by intravenous injection, 60 mg/kg bw oral miglustat, or 400 mg/kg bw cipaglucosidase alfa in combination with miglustat (60 mg/kg bw) every other day for 14 days prior to mating with un-dosed males and continuing through gestation day 7 (GD 7). Male rats were administered 70, 150 or 400 mg/kg bw cipaglucosidase alfa by intravenous injection, 60 mg/kg bw oral miglustat, or 400 mg/kg bw cipaglucosidase alfa in combination with miglustat (60 mg/kg bw) every other day for 6 weeks beginning 28 days prior to mating with un-dosed females. Fertility indices were not affected in males or females. Pre-implantation loss was observed in the female fertility component of the study in both miglustat alone and the combination treatment group. Whether this pre-implantation loss in female rats would be reversible if treatment were discontinued prior to cohabitation is unknown. Pre-implantation loss in naïve females, mated with treated males was observed in the combination group. However, lower pre-implantation loss was observed in naïve females mated with treated males during the 2-week recovery period. There was no effect of cipaglucosidase alfa in combination with miglustat therapy or cipaglucosidase alfa alone on spermatogenesis. A NOAEL for developmental toxicity was not identified for the combination dose. Observed pre-implantation loss occurred at the LOAEL of 400 mg/kg bw cipaglucosidase with 60 mg/kg bw miglustat with systemic exposure approximately 27-fold (cipaglucosidase alfa AUC) and 4-fold (miglustat AUC) that of human exposure at the MRHD of 20 mg/kg bw cipaglucosidase alfa with 260 mg miglustat for female rats on GD 7 respectively, based on AUC-24h of 38050 µg·h/mL for cipaglucosidase

alfa and 87600 ng·h/mL for miglustat with the combined dose.

The impact of OPFOLDA on fertility is based, in part, on studies from another miglustat product. Below are findings from the fertility studies with the other miglustat product.

Fertility studies conducted with another miglustat product showed that male rats, given 20 mg/kg/day miglustat (exposure less than that expected for the MRHD of miglustat 260 mg, based on BSA comparisons, mg/m²) by oral gavage, 14 days prior to mating, had decreased spermatogenesis with altered sperm morphology and motility and decreased fertility. Decreased spermatogenesis was reversible following 6 weeks of miglustat withdrawal in this study. A higher dose of 60 mg/kg/day (approximately 2 times the MRHD of miglustat, based on BSA comparisons, mg/m²) resulted in seminiferous tubule and testicular atrophy/degeneration. Female rats were given oral miglustat gavage doses of 20, 60, and 180 mg/kg/day beginning 15 days prior to mating, during mating and to the expected completion of organogenesis on day 17 of pregnancy. Effects observed at 180 mg/kg/day (approximately 6 times the MRHD of miglustat, based on BSA comparisons) included reduced body weight gain from Day 12 of pregnancy, increased early embryonic death and increased postimplantation losses resulting in reduced numbers of live foetuses per female. In addition, foetal weight was reduced at 180 mg/kg/day. Also, the extent of post-implantation losses at 60 mg/kg/day were slightly elevated resulting in slightly reduced number of live foetuses per female. There were no effects of treatment apparent at 20 mg/kg/day.

In a segment II embryo-fetal development study, pregnant rats were administered 70, 150 or 400 mg/kg bw cipaglucosidase alfa by intravenous injection, 60 mg/kg bw oral miglustat, or 400 mg/kg bw cipaglucosidase in combination with miglustat (60 mg/kg bw) every other day during gestation from GD 6 to GD 18. No adverse findings were observed in pregnant rats or their offspring when cipaglucosidase was administered alone or in combination with miglustat. Systemic exposure at the NOAEL of 400 mg/kg bw cipaglucosidase alfa with 60 mg/kg bw miglustat is 20-fold and 4-fold that of humans at the MRHD (20 mg/kg bw cipaglucosidase alfa with 260 mg miglustat), based on AUC_{0-24h} of 28850 µg·h/mL and 84300 ng·h/mL, for cipaglucosidase alfa and miglustat, respectively, with the combined dose.

In an embryo-fetal development study in rabbits, pregnant animals were administered 30, 70 or 175 mg/kg bw cipaglucosidase alfa by intravenous injection, 25 mg/kg bw oral miglustat, or 150 mg/kg bw cipaglucosidase in combination with miglustat (25 mg/kg bw) every other day during gestation from GD 7 to GD 19. Adverse effects occurred at the LOAEL combination dose (175 mg/kg cipaglucosidase alfa with 25 mg/kg oral miglustat) including decreased maternal food consumption, body weight gains and an increase in cardiovascular malformations (e.g., atretic pulmonary trunk, ventricular septum defect, and dilated aortic arch) in offspring. A NOAEL could not be established for the combination group since only one combination dose was tested. These findings occurred at 16-fold and 3-fold the exposure at MRHD of cipaglucosidase alfa and miglustat (20 mg/kg bw cipaglucosidase with 260 mg miglustat), respectively, based on AUC_{0-24h} of 22550 μ g·h/mL and 66100 ng·h/mL, for cipaglucosidase alfa and miglustat, respectively, with the combined dose. It is not possible to exclude that the embryo-fetal adverse effects observed in the rabbits could have occurred following a single exposure to the combination.

In a segment III pre- and post-natal development study in rats, pregnant animals were administered 70, 150 or 400 mg/kg bw cipaglucosidase alfa by intravenous injection, 60 mg/kg bw oral miglustat, or 400 mg/kg bw cipaglucosidase in combination with miglustat (60 mg/kg bw) every other day during gestation from GD 6 to GD 20 and from lactation day (LD) 1 to LD 19. Increased maternal and pup mortality was observed at the combination dose. A NOAEL could not be established for the combination group since only one combination dose was tested. Evaluation of milk in rats from the combination treatment group on LD 13 showed secretion of miglustat and excretion of cipaglucosidase alfa in rat milk. Milk to plasma ratios were 1.72 for miglustat and 0.038 for cipaglucosidase alfa.

PATIENT MEDICATION INFORMATION

READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE

PrOPFOLDA®

miglustat capsules

This patient medication information is written for the person who will be taking **OPFOLDA**. This may be you or a person you are caring for. Read this information carefully. Keep it as you may need to read it again.

This patient medication information is a summary. It will not tell you everything about this medication. If you have more questions about this medication or want more information about **OPFOLDA**, talk to a healthcare professional.

OPFOLDA is always used with another medicine called POMBILITI (cipaglucosidase alfa), a type of enzyme replacement therapy (ERT). It is very important that you also read the Patient Medication Information of POMBILITI (cipaglucosidase alfa).

What OPFOLDA is used for:

• OPFOLDA is a medicine that is used in combination with POMBILITI (cipaglucosidase alfa) for the treatment of late-onset Pompe disease (LOPD) in adults weighing 40 kg or more.

How OPFOLDA works:

People with Pompe disease have low levels of the enzyme acid alpha-glucosidase (GAA). This enzyme helps control levels of glycogen in the body.

In Pompe disease, high levels of glycogen build up in the muscles of the body. This keeps muscles, such as the muscles that help you walk, the muscles under the lungs that help you breathe, and the heart muscle, from working properly.

OPFOLDA contains the active substance 'miglustat' that binds to cipaglucosidase alfa during treatment. Cipaglucosidase alfa is an artificial enzyme that can replace natural GAA enzyme which is lacking in Pompe disease.

The ingredients in OPFOLDA are:

Medicinal ingredients: miglustat

Non-medicinal ingredients: black iron oxide, colloidal silicon dioxide, gelatin, magnesium stearate, microcrystalline cellulose, pharmaceutical ink, pregelatinized starch (maize), sucralose, titanium dioxide

OPFOLDA comes in the following dosage forms:

Capsules: 65 mg

OPFOLDA is available in cartons containing 4 or 24 capsules.

Do not use OPFOLDA if:

- You are allergic to miglustat or any of the other ingredients of this medicine or its container.
- You cannot take cipaglucosidase alfa, because you:
 - have had life-threatening hypersensitivity or infusion-related reactions to cipaglucosidase alfa.
 - are allergic to cipaglucosidase alfa or any other ingredients in this medicine or its container. See the Patient Medication Information of POMBILITI (cipaglucosidase alfa) for a complete list of ingredients.
- You are pregnant or planning to become pregnant.

To help avoid side effects and ensure proper use, talk to your healthcare professional before you take OPFOLDA. Talk about any health conditions or problems you may have, including if you:

- have had an infusion related or allergic reaction to another ERT.
- have kidney problems.

Other warnings you should know about:

• Female patients

Pregnancy and birth control

- There is no experience with the use of OPFOLDA in combination with cipaglucosidase alfa during pregnancy.
- You must NOT take OPFOLDA or receive cipaglucosidase alfa if you are pregnant. There may be risks to the unborn baby.
- If you are able to become pregnant:
 - your healthcare professional will make sure you are not pregnant before you start taking OPFOLDA in combination with cipaglucosidase alfa.
 - you must use reliable birth control methods while using these medicines, and for 4 weeks after stopping both medicines.
 - tell your healthcare professional immediately if you get pregnant, think that you may be pregnant, or if you are planning to become pregnant during treatment.

Breast-feeding

- If you are breastfeeding, do NOT take OPFOLDA in combination with cipaglucosidase alfa. A decision will need to be made whether to stop treatment or to stop breast-feeding.
- Talk to your healthcare professional about the best way to feed your baby during treatment.

Fertility – male and female patients

- Taking OPFOLDA in combination of cipaglucosidase alfa may affect your ability to have children. Talk to your healthcare professional if this is a concern for you.

Driving and using machines

 Taking OPFOLDA in combination with cipaglucosidase alfa can cause dizziness, low blood pressure and drowsiness. You should use caution when driving or operating potentially dangerous machinery while you are taking OPFOLDA in combination with cipaglucosidase alfa.

Infusion related reactions with cipaglucosidase alfa

- OPFOLDA is always used with cipaglucosidase alfa. Infusion related reactions were reported in patients given cipaglucosidase alfa.
- You must tell your healthcare professional immediately if you get an infusion-associated reaction or an allergic reaction from cipaglucosidase alfa. Some of these reactions may become serious and can cause death. Your healthcare professional may give you medicines before your infusion to prevent these reactions.
- If you get any side effects during an infusion of cipaglucosidase alfa, the infusion may be stopped, and appropriate medical treatment may be started.
- See the **Serious side effects and what to do about them table** below, for a list of symptoms of infusion or allergic reactions and what to do about them.

Tell your healthcare professional about all the medicines you take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.

How to take OPFOLDA:

- Always take this medicine exactly as your healthcare professional has told you. Check with your healthcare professional if you are not sure how the medicine should be used.
- You must take OPFOLDA by mouth on an empty stomach.
 - Fast for 2 hours before and 2 hours after taking this medicine.
 - Swallow the OPFOLDA capsules whole only with unsweetened beverages. This includes water, tea and/or coffee with no cream, sugar or sweeteners. Do NOT consume other beverages or food during the 4-hour fasting period.
 - Two hours after taking OPFOLDA, you can resume normal eating and drinking.
- OPFOLDA capsules must be used with cipaglucosidase alfa. See also the Patient Medication Information of POMBILITI (cipaglucosidase alfa).

Usual dose:

Your dose of OPFOLDA will depend on your body weight:

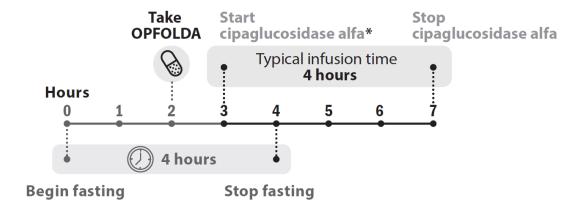
- If you weigh **50 kg or more**, the recommended dose of OPFOLDA is 260 mg (4 capsules of 65 mg).
- If you weigh **between 40 kg and 50 kg**, the recommended dose of OPFOLDA is 195 mg (3 capsules of 65 mg).

If you have kidney problems, your healthcare professional may lower your dose.

Your healthcare professional will monitor your condition and may stop your treatment if your disease gets worse or if you experience serious side effects.

You will receive OPFOLDA and cipaglucosidase alfa once every other week. Both are used on the same day. See the dose timeline below in **Figure 1**.

Figure 1 - Dose timeline



* You should take OPFOLDA 1 hour before receiving cipaglucosidase alfa infusion. In the event of cipaglucosidase alfa infusion delay, your healthcare professional will ensure that infusion is started within 3 hours of taking OPFOLDA.

Switching from another enzyme replacement therapy (ERT):

If you are currently being treated with another ERT:

- Your healthcare professional will tell you when to stop the other ERT before starting OPFOLDA.
- Tell your healthcare professional when you have completed your last dose.

Overdose:

There is no experience with overdose of OPFOLDA and/or cipaglucosidase alfa.

If you think you, or a person you are caring for, have taken too much OPFOLDA, contact a healthcare professional, hospital emergency department, regional poison control centre or Health Canada's toll-free number, 1-844 POISON-X (1-844-764-7669), immediately, even if there are no signs or symptoms.

Missed Dose:

Forgotten dose:

If you miss a dose of OPFOLDA, please speak to your healthcare professional and do not start your cipaglucosidase alfa infusion. You will need to re-start the treatment of OPFOLDA in combination with cipaglucosidase alfa as soon as possible.

Infusion delays:

If you have missed an infusion and it has been more than 3 hours since you have taken OPFOLDA, please contact your healthcare professional as soon as possible to reschedule your appointment. Your next appointment should be scheduled at least 24 hours after OPFOLDA was last taken.

Possible side effects from using OPFOLDA:

These are not all the possible side effects you may have when taking OPFOLDA. If you experience any side effects not listed here, tell your healthcare professional.

OPFOLDA is used with cipaglucosidase alfa, and side effects can occur with either of these medicines. Side effects were mainly seen while patients were being infused with cipaglucosidase alfa (infusion-related effects) or shortly after.

- Headache
- Involuntary shaking of one or more parts of the body
- Feeling sleepy
- Altered sense of taste
- Sensation like numbness, tingling, pins, and needles
- Rapid heartbeat
- Loose, runny stools
- Nausea
- Stomach pain
- Passing gas or wind
- Bloating
- Vomiting
- Trouble passing stools
- Increased sweating
- Muscle cramps, muscle pain, muscle weakness
- Pain in joints
- Feeling tired all the time
- Feeling uncomfortable in chest
- Swelling or pain in the body area where needle was inserted
- Pain
- Swelling in the hands, feet, ankles, legs
- Rise in blood pressure
- Stomach discomfort
- Cannot hold or maintain balance
- Burning sensation
- Pain in one or both sides of the head, throbbing pain, aura, eye pain, sensitivity to light (migraine)
- Unusual paleness of the skin
- Breathing difficult and triggers coughing, and shortness of breath (asthma)
- Throat discomfort
- Indigestion
- Sore or irritated throat
- Painful and abnormal contractions of the throat
- Mouth pain or discomfort (oral pain and oral discomfort)
- Swollen tongue
- Skin discoloration
- Swelling of the skin
- Pain in the area between the hip and rib
- Muscle fatigue

- Increased rigidity of muscles
- Constant feeling of being tired
- Pain in the cheek, gums, lips, chin
- Feeling jittery
- Feeling of uneasiness, overall feeling of being sluggish
- Pain in chest
- Swelling face
- Changes in body temperature
- Decrease in a type of white blood cell shown in tests
- Scratch or damage to the skin

Serious side effects and what to do about them

	Talk to your health	Stop taking this drug	
Frequency/Side Effect/Symptom	Only if severe	In all cases	and get immediate medical help
Common			
Infusion related reactions, including anaphylaxis (severe allergic reaction): difficulty swallowing or breathing, fever, chills, cough, flushing, dizziness, wheezing, feeling sick to your stomach and throwing up, feeling			✓
close to fainting, low blood pressure, hives or rash, swelling of the face, lips, tongue or throat.			

If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, tell your healthcare professional.

Reporting Side Effects

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting (canada.ca/drug-device-reporting) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

NOTE: Contact your healthcare professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.

Storage:

- Store at room temperature (15°C to 25°C).
- Keep out of reach and sight of children.
- Do not use if inner seal is missing or broken.

- Do not use this medicine after the expiry date which is stated on the bottle and carton after the letters "EXP". The expiry date refers to the last date of that month.
- Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how
 to throw away medicines that you no longer use. These measures will help protect the
 environment.

If you want more information about OPFOLDA:

- Talk to your healthcare professional
- Find the full Product Monograph that is prepared for healthcare professionals and includes this
 Patient Medication Information by visiting the Health Canada Drug Product Database website:
 https://www.canada.ca/en/health-canada/services/drugs-health-products/drug-products/drugproduct-database.html, the manufacturer's website: https://www.amicustherapeutics.ca, or by
 calling 1-833-810-5008.

This leaflet was prepared by:

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