# $VYNDAMAX^{TM}$

# (Tafamidis)



เป็นยาใหม่ใช้เฉพาะโรงพยาบาล แพทย์ควรติดตามผลการใช้ยา

ความถูกต้องของโฆษณานี้เป็นความรับผิดชอบของผู้โฆษณา มิได้ดำเนินการโดยสำนักงานคณะกรรมการอาหารและยา

โปรดอ่านรายละเอียดเพิ่มเติมในเอกสารกำกับยา

เลขทะเบียนยาที่ 1c 15072/65 (NC)

Pfizer (Thailand) Ltd., Bangkok Thailand

PP-VDM-THA-0151

LPD Date: December 26, 2023

Country: Thailand

Reference EU SmPC; date: February 15, 2023



# **VYNDAMAX**<sup>TM</sup>

# 1. NAME OF THE MEDICINAL PRODUCT

#### 1.1 Product Name

**VYNDAMAX** 

## 1.2 Strength

61 mg

## 1.3 Pharmaceutical Dosage Form

Soft capsule

#### 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

#### 2.1 Qualitative Declaration

Active Ingredient: tafamidis.

#### 2.2 Quantitative Declaration

Each soft capsule contains 61 mg of micronized tafamidis.

## Excipient with known effect

Each soft capsule contains no more than 44 mg of sorbitol (E 420).

For the full list of excipients, see section 6.1.

# 3. PHARMACEUTICAL FORM

Soft capsule.

Reddish brown, opaque, oblong (approximately 21 mm) capsule printed with "VYN 61" in white.

LPD rev no.: 2.1

LPD Date: December 26, 2023

Country: Thailand

Reference EU SmPC; date: February 15, 2023

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

VYNDAMAX is indicated for the treatment of wild-type or hereditary transthyretin amyloidosis in

adult patients with cardiomyopathy (ATTR-CM).

4.2 Posology and method of administration

Treatment should be initiated under the supervision of a physician knowledgeable in the

management of patients with amyloidosis or cardiomyopathy.

When there is a suspicion in patients presenting with specific medical history or signs of heart

failure or cardiomyopathy, etiologic diagnosis must be done by a physician knowledgeable in the

management of amyloidosis or cardiomyopathy to confirm ATTR-CM and exclude AL amyloidosis

before starting tafamidis, using appropriate assessment tools such as: bone scintigraphy and

blood/urine assessment, and/or histological assessment by biopsy, and transthyretin (TTR)

genotyping to characterise as wild-type or hereditary.

**Posology** 

The recommended dose is one capsule of VYNDAMAX 61 mg (tafamidis) orally once daily (see

section 5.1).

VYNDAMAX 61 mg (tafamidis) corresponds to 80 mg tafamidis meglumine. Tafamidis and

tafamidis meglumine are not interchangeable on a per mg basis (see section 5.2).

VYNDAMAX should be started as early as possible in the disease course when the clinical benefit

on disease progression could be more evident. Conversely, when amyloid-related cardiac damage

is more advanced, such as in NYHA Class III, the decision to start or maintain treatment should

be taken at the discretion of a physician knowledgeable in the management of patients with

amyloidosis or cardiomyopathy (see section 5.1). There are limited clinical data in patients with

NYHA Class IV.

If vomiting occurs after dosing, and the intact VYNDAMAX capsule is identified, then an additional

dose of VYNDAMAX should be administered if possible. If no capsule is identified, then no

additional dose is necessary, with resumption of dosing the next day as usual.

LPD rev no.: 2.1

LPD Date: December 26, 2023

Country: Thailand

Reference EU SmPC; date: February 15, 2023

Special populations

Elderly

No dosage adjustment is required for elderly patients (≥ 65 years) (see section 5.2).

Hepatic and renal impairment

No dosage adjustment is required for patients with renal or mild and moderate hepatic impairment. Limited data are available in patients with severe renal impairment (creatinine clearance less than or equal to 30 mL/min). Tafamidis has not been studied in patients with severe hepatic impairment and caution is recommended (see section 5.2).

Paediatric population

There is no relevant use of tafamidis in the paediatric population.

Method of administration

Oral use.

The soft capsules should be swallowed whole and not crushed or cut. VYNDAMAX may be taken with or without food.

4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

4.4 Special warnings and precautions for use

Women of childbearing potential should use appropriate contraception when taking tafamidis and continue to use appropriate contraception for 1-month after stopping treatment with tafamidis (see section 4.6).

Tafamidis should be added to the standard of care for the treatment of patients with transthyretin amyloidosis. Physicians should monitor patients and continue to assess the need for other therapy, including the need for organ transplantation, as part of this standard of care. As there are no data available regarding the use of tafamidis in organ transplantation, tafamidis should be discontinued in patients who undergo organ transplantation.

Increase in liver function tests and decrease in thyroxine may occur (see section 4.5 and 4.8).

LPD rev no.: 2.1

LPD Date: December 26, 2023

Country: Thailand

Reference EU SmPC; date: February 15, 2023

This medicinal product contains no more than 44 mg sorbitol in each capsule. Sorbitol is a source

of fructose.

The additive effect of concomitantly administered products containing sorbitol (or fructose) and

dietary intake of sorbitol (or fructose) should be taken into account.

The content of sorbitol in medicinal products for oral use may affect the bioavailability of other

medicinal products for oral use administered concomitantly.

4.5 Interaction with other medicinal products and other forms of interaction

In a clinical study in healthy volunteers, 20 mg tafamidis meglumine did not induce or inhibit the

cytochrome P450 enzyme CYP3A4.

In vitro tafamidis inhibits the efflux transporter BCRP (breast cancer resistant protein) at the

61 mg/day tafamidis dose with IC50=1.16 µM and may cause drug-drug interactions at clinically

relevant concentrations with substrates of this transporter (e.g. methotrexate, rosuvastatin,

imatinib). In a clinical study in healthy participants, the exposure of the BCRP substrate

rosuvastatin increased approximately 2-fold following multiple doses of 61 mg tafamidis daily

dosing.

Likewise, tafamidis inhibits the uptake transporters OAT1 and OAT3 (organic anion transporters)

with IC50=2.9 μM and IC50=2.36 μM, respectively, and may cause drug-drug interactions at

clinically relevant concentrations with substrates of these transporters (e.g. non-steroidal anti-

inflammatory drugs, bumetanide, furosemide, lamivudine, methotrexate, oseltamivir, tenofovir,

ganciclovir, adefovir, cidofovir, zidovudine, zalcitabine). Based on in vitro data, the maximal

predicted changes in AUC of OAT1 and OAT3 substrates were determined to be less than 1.25

for the tafamidis 61 mg dose, therefore, inhibition of OAT1 or OAT3 transporters by tafamidis is

not expected to result in clinically significant interactions.

No interaction studies have been performed evaluating the effect of other medicinal products on

tafamidis.

Laboratory test abnormality

Tafamidis may decrease serum concentrations of total thyroxine, without an accompanying

change in free thyroxine (T4) or thyroid stimulating hormone (TSH). This observation in total

LPD rev no.: 2.1

LPD Date: December 26, 2023

Country: Thailand

Reference EU SmPC; date: February 15, 2023

thyroxine values may likely be the result of reduced thyroxine binding to or displacement from

TTR due to the high binding affinity tafamidis has to the TTR thyroxine receptor. No

corresponding clinical findings consistent with thyroid dysfunction have been observed.

4.6 Fertility, pregnancy and lactation

Women of childbearing potential

Contraceptive measures should be used by women of childbearing potential during treatment with

tafamidis, and for one month after stopping treatment, due to the prolonged half-life.

**Pregnancy** 

There are no data on the use of tafamidis in pregnant women. Studies in animals have shown

developmental toxicity (see section 5.3). Tafamidis is not recommended during pregnancy and in

women of childbearing potential not using contraception. Please report to Pfizer all cases of

patients becoming pregnancy while receiving tafamidis.

**Breast-feeding** 

Available data in animals have shown excretion of tafamidis in milk. A risk to the newborns/infants

cannot be excluded. Tafamidis should not be used during breast-feeding.

**Fertility** 

No impairment of fertility has been observed in nonclinical studies (see section 5.3).

4.7 Effects on ability to drive and use machines

On the basis of the pharmacodynamic and pharmacokinetic profile, tafamidis is believed to have

no or negligible influence on the ability to drive or use machines.

4.8 Undesirable effects

Summary of the safety profile

The safety data reflect exposure of 176 patients with ATTR-CM to 80 mg (administered as 4 x 20

mg) of tafamidis meglumine administered daily in a 30-month placebo-controlled trial in patients

diagnosed with ATTR-CM (see section 5.1).

The frequency of adverse events in patients treated with 80 mg tafamidis meglumine was

generally similar and comparable to placebo.

LPD rev no.: 2.1

LPD Date: December 26, 2023

Country: Thailand

Reference EU SmPC; date: February 15, 2023

The following adverse events were reported more often in patients treated with tafamidis meglumine 80 mg compared to placebo: flatulence [8 patients (4.5%) versus 3 patients (1.7%)] and liver function test increased [6 patients (3.4%) versus 2 patients (1.1%)]. A causal relationship has not been established.

Safety data for tafamidis 61 mg are available from its open-label long-term extension study.

#### Tabulated list of adverse reactions

Adverse reactions are listed below by MedDRA System Organ Class (SOC) and frequency categories using the standard convention: Very common ( $\geq$  1/10), Common ( $\geq$  1/100 to < 1/10), and Uncommon ( $\geq$  1/1,000 to < 1/100). Within the frequency group, adverse reactions are presented in order of decreasing seriousness. Adverse reactions listed in the table below are from cumulative clinical data in ATTR-CM participants.

System Organ Class	Common
Gastrointestinal disorders	Diarrhoea
Skin and subcutaneous tissue disorders	Rash
	Pruritus

#### 4.9 Overdose

#### **Symptoms**

There is minimal clinical experience with overdose. During clinical trials, two patients diagnosed with ATTR-CM accidentally ingested a single tafamidis meglumine dose of 160 mg without the occurrence of any associated adverse events. The highest dose of tafamidis meglumine given to healthy volunteers in a clinical trial was 480 mg as a single dose. There was one reported treatment-related adverse event of mild hordeolum at this dose.

# Management

In case of overdose, standard supportive measures should be instituted as required.

#### 5. PHARMACOLOGICAL PROPERTIES

#### 5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Other nervous system drugs, ATC code: N07XX08

LPD rev no.: 2.1

LPD Date: December 26, 2023

Country: Thailand

Reference EU SmPC; date: February 15, 2023

Mechanism of action

Tafamidis is a selective stabiliser of TTR. Tafamidis binds to TTR at the thyroxine binding sites,

stabilising the tetramer and slowing dissociation into monomers, the rate-limiting step in the

amyloidogenic process.

Pharmacodynamic effects

Transthyretin amyloidosis is a severely debilitating condition induced by the accumulation of

various insoluble fibrillar proteins, or amyloid, within the tissues in amounts sufficient to impair

normal function. The dissociation of the transthyretin tetramer to monomers is the rate-limiting

step in the pathogenesis of transthyretin amyloidosis. The folded monomers undergo partial

denaturation to produce alternatively folded monomeric amyloidogenic intermediates. These

intermediates then misassemble into soluble oligomers, profilaments, filaments, and amyloid fibrils.

Tafamidis binds with negative cooperativity to the two thyroxine binding sites on the native

tetrameric form of transthyretin preventing dissociation into monomers. The inhibition of TTR

tetramer dissociation forms the rationale for the use of tafamidis in ATTR-CM patients.

A TTR stabilisation assay was utilised as a pharmacodynamic marker, and assessed the stability

of the TTR tetramer.

Tafamidis stabilised both the wild-type TTR tetramer and the tetramers of 14 TTR variants tested

clinically after once-daily dosing with tafamidis. Tafamidis also stabilised the TTR tetramer for

25 variants tested ex vivo, thus demonstrating TTR stabilisation of 40 amyloidogenic TTR

genotypes.

In a multicentre, international, double-blind, placebo-controlled, randomised study (see Clinical

efficacy and safety section), TTR stabilisation was observed at Month 1 and was maintained

through Month 30.

Biomarkers associated with heart failure (NT-proBNP and Troponin I) favoured VYNDAMAX over

placebo.

Clinical efficacy and safety

Efficacy was demonstrated in a multicentre, international, double-blind, placebo-controlled,

randomised 3-arm study in 441 patients with wild-type or hereditary ATTR-CM.

LPD Title: Vyndamax LPD rev no.: 2.1

LPD Date: December 26, 2023

Country: Thailand

Reference EU SmPC; date: February 15, 2023

Patients were randomised to either tafamidis meglumine 20 mg (n=88) or 80 mg [administered as four 20 mg tafamidis meglumine capsules] (n=176) or matching placebo (n=177) once daily, in addition to standard of care (e.g. diuretics) for 30 months. Treatment assignment was stratified by the presence or absence of a variant TTR genotype as well as by baseline severity of disease (NYHA Class). Table 1 describes the patient demographics and baseline characteristics.

Table 1: Patient demographics and baseline characteristics

Characteristic	Pooled Tafamidis	Placebo
	N=264	N=177
Age — year		
Mean (standard deviation)	74.5 (7.2)	74.1 (6.7)
Median (minimum, maximum)	75 (46, 88)	74 (51, 89)
Sex — number (%)		
Male	241 (91.3)	157 (88.7)
Female	23 (8.7)	20 (11.3)
TTR genotype — number (%)		
ATTRm	63 (23.9)	43 (24.3)
ATTRwt	201 (76.1)	134 (75.7)
NYHA Class — number (%)		
NYHA Class I	24 (9.1)	13 (7.3)
NYHA Class II	162 (61.4)	101 (57.1)
NYHA Class III	78 (29.5)	63 (35.6)

Abbreviations: ATTRm=variant transthyretin amyloid, ATTRwt=wild-type transthyretin amyloid, NYHA=New York Heart Association.

The primary analysis used a hierarchical combination applying the method of Finkelstein-Schoenfeld (F-S) to all-cause mortality and frequency of cardiovascular-related hospitalisations, which is defined as the number of times a subject is hospitalised (i.e., admitted to a hospital) for cardiovascular-related morbidity. The method compared each patient to every other patient within each stratum in a pair-wise manner that proceeds in a hierarchical fashion using all-cause mortality followed by frequency of cardiovascular-related hospitalisations when patients cannot be differentiated based on mortality.

LPD Title: Vyndamax LPD rev no.: 2.1

LPD Date: December 26, 2023

Country: Thailand

Reference EU SmPC; date: February 15, 2023

This analysis demonstrated a significant reduction (p=0.0006) in all-cause mortality and frequency of cardiovascular-related hospitalisations in the pooled tafamidis 20 mg and 80 mg dose group versus placebo (Table 2).

Table 2: Primary analysis using Finkelstein-Schoenfeld (F-S) Method of all-cause mortality and frequency of cardiovascular-related hospitalisations

Primary analysis	Pooled Tafamidis	Placebo	
	N=264	N=177	
Number (%) of subjects alive* at month 30	186 (70.5)	101 (57.1)	
Average cardiovascular-related hospitalisations during	0.297	0.455	
30 months (per patient per year) among those alive at			
month 30 <sup>†</sup>			
p-value from F-S Method	0.000	6	

<sup>\*</sup> Heart transplantation and cardiac mechanical assist device implantation are considered indicators of approaching end stage. As such, these subjects are treated in the analysis as equivalent to death. Therefore, such subjects are not included in the count of "Number of Subjects Alive at Month 30" even if such subjects are alive based on 30 month vital status follow-up assessment.

† Descriptive mean among those who survived the 30 months.

Analysis of the individual components of the primary analysis (all-cause mortality and cardiovascular-related hospitalisation) also demonstrated significant reductions for tafamidis versus placebo.

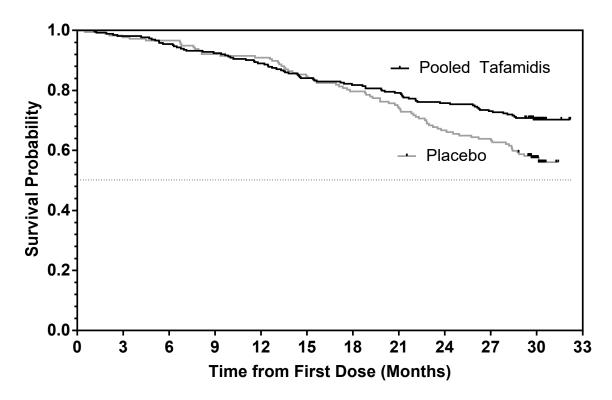
The hazard ratio from the all-cause mortality Cox-proportional hazard model for pooled tafamidis was 0.698 (95% CI 0.508, 0.958), indicating a 30.2% reduction in the risk of death relative to the placebo group (p=0.0259). A Kaplan-Meier plot of time to event all-cause mortality is presented in Figure 1.

LPD Date: December 26, 2023

Country: Thailand

Reference EU SmPC; date: February 15, 2023

Figure 1: All-cause mortality\*



Subjects Remaining at Risk

(Cumulative events)

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Pooled	264	259	252	244	235	222	216	209	200	193	99	0
Tafamidis	0	5	12	20	29	42	48	55	64	71	78	78
Placebo	177	173	171	163	161	150	141	131	118	113	51	0
	0	4	6	14	16	27	36	46	59	64	75	76

<sup>\*</sup> Heart transplants and cardiac mechanical assist devices treated as death. Hazard ratio from Cox-proportional hazards model with treatment, TTR genotype (variant and wild-type), and New York Heart Association (NYHA) Baseline classification (NYHA Classes I and II combined and NYHA Class III) as factors.

There were significantly fewer cardiovascular-related hospitalisations with tafamidis compared with placebo with a reduction in risk of 32.4% (Table 3).

Table 3: Cardiovascular-related hospitalisation frequency

	Pooled Tafamidis	Placebo	
	N=264	N=177	
Total (%) number of subjects with	138 (52.3)	107 (60.5)	
Cardiovascular-related hospitalisations			

LPD Title: Vyndamax LPD rev no.: 2.1

LPD Date: December 26, 2023

Country: Thailand

Reference EU SmPC; date: February 15, 2023

	Pooled Tafamidis	Placebo	
	N=264	N=177	
Cardiovascular-related hospitalisations per year*	0.4750	0.7025	
Pooled tafamidis versus placebo treatment	0.6761		
difference (relative risk ratio)*			
p-value*	< 0.0001		

Abbreviation: NYHA=New York Heart Association.

The treatment effect of tafamidis on functional capacity and health status was assessed by the 6-Minute Walk Test (6MWT) and the Kansas City Cardiomyopathy Questionnaire-Overall Summary (KCCQ-OS) score (composed of the Total Symptom, Physical Limitation, Quality of Life, and Social Limitation domains), respectively. A significant treatment effect favouring tafamidis was first observed at Month 6 and remained consistent through Month 30 on both the 6MWT distance and KCCQ-OS score (Table 4).

Table 4: 6MWT and KCCQ-OS and component domain scores

Table 4. Only 1 and Rook-oo and component domain scores								
Endpoints	Baseline Me	ean (SD)	Change fror	n Baseline	Treatment	p-value		
			to Month 30	, LS mean	difference			
			(SE)		from placebo			
	Pooled	Placebo	Pooled Placebo		LS mean			
	Tafamidis	N=177	Tafamidis		(95% CI)			
	N=264							
6MWT*	350.55	353.26	-54.87	-130.55	75.68	p< 0.0001		
(metres)	(121.30)	(125.98)	(5.07)	(9.80)	(57.56, 93.80)			
KCCQ-OS*	67.27	65.90	-7.16	-20.81	13.65	<i>p</i> < 0.0001		
	(21.36)	(21.74)	(1.42)	(1.97)	(9.48, 17.83)			

<sup>\*</sup> Higher values indicate better health status.

Abbreviations: 6MWT=6-Minute Walk Test; KCCQ-OS=Kansas City Cardiomyopathy Questionnaire-Overall Summary; LS=least squares; CI=confidence interval.

<sup>\*</sup> This analysis was based on a Poisson regression model with treatment, TTR genotype (variant and wild-type), New York Heart Association (NYHA) Baseline classification (NYHA Classes I and II combined and NYHA Class III), treatment-by-TTR genotype interaction, and treatment-by-NYHA Baseline classification interaction terms as factors.

Country: Thailand

Reference EU SmPC; date: February 15, 2023

Results from F-S method represented by win ratio for the combined endpoint and its components (all-cause mortality and frequency of cardiovascular-related hospitalisation) consistently favoured tafamidis versus placebo by dose and across all subgroups (wild-type, variant and NYHA Class I & II, and III) except for cardiovascular-related hospitalisation frequency in NYHA Class III (Figure 2) which is higher in the tafamidis treated group compared to placebo (see section 4.2). Analyses of 6MWT and KCCQ-OS also favoured tafamidis relative to placebo within each subgroup.

F-S Method \* All-Cause Mortality Cardiovascular Hospitalization Frequency (Win Ratio 95% CI) Hazard Ratio (95% CI) Risk Ratio (95% CI) Overall - Pooled VYNDAQEL vs Placebo TTR Genotype ATTRm (24%) ATTRwt (76%) NYHA Baseline Class I or II (68%) Class III (32%) 80 mg (40%) vs Placebo (40%) 20 mg (20%) vs Placebo (40%) 0.5 Favours VYNDAMAX Favours Placebo rs VYNDAMAX | Favours Placeb Favours VYNDAMAX Favours Placebo

Figure 2: Results from F-S Method and components by subgroup and dose

Abbreviations: ATTRm=variant transthyretin amyloid, ATTRwt=wild type transthyretin amyloid,

F-S=Finkelstein-Schoenfeld, CI=Confidence Interval.

\* F-S results presented using win ratio (based on all-cause mortality and frequency of cardiovascular hospitalisation). The Win ratio is the number of pairs of treated-patient "wins" divided by number of pairs of placebo patient "wins."

Heart transplants and cardiac mechanical assist devices treated as death.

In applying the F-S method to each dose group individually, tafamidis reduced the combination of all-cause mortality and frequency of cardiovascular-related hospitalisations for both the 80 mg and 20 mg doses compared to placebo (p=0.0030 and p=0.0048, respectively). Results of the primary analysis, 6MWT at Month 30 and KCCQ-OS at Month 30 were statistically significant for both the tafamidis meglumine 80 mg and 20 mg doses versus placebo, with similar results for both doses.

Efficacy data for tafamidis 61 mg are not available as this formulation was not evaluated in the double-blind, placebo-controlled, randomised phase 3 study. The relative bioavailability of tafamidis 61 mg is similar to tafamidis meglumine 80 mg at steady-state (see section 5.2).

LPD rev no.: 2.1

LPD Date: December 26, 2023

Country: Thailand

Reference EU SmPC; date: February 15, 2023

A supra-therapeutic, single, 400 mg oral dose of tafamidis meglumine solution in healthy

volunteers demonstrated no prolongation of the QTc interval.

5.2 Pharmacokinetic properties

**Absorption** 

After oral administration of the soft capsule once daily, the maximum peak concentration (C<sub>max</sub>) is

achieved within a median time (t<sub>max</sub>) of 4 hours for tafamidis 61 mg and 2 hours for tafamidis

meglumine 80 mg (4 x 20 mg) after dosing in the fasted state. Concomitant administration of a

high fat, high calorie meal altered the rate of absorption, but not the extent of absorption. These

results support the administration of tafamidis with or without food.

**Distribution** 

Tafamidis is highly protein bound (> 99%) in plasma. The apparent steady-state volume of

distribution is 18.5 litres.

The extent of tafamidis binding to plasma proteins has been evaluated using animal and human

plasma. The affinity of tafamidis for TTR is greater than that for albumin. Therefore, in plasma,

tafamidis is likely to bind preferentially to TTR despite the significantly higher concentration of

albumin (600  $\mu$ M) relative to TTR (3.6  $\mu$ M).

Biotransformation and elimination

There is no explicit evidence of biliary excretion of tafamidis in humans. Based on preclinical data,

it is suggested that tafamidis is metabolised by glucuronidation and excreted via the bile. This

route of biotransformation is plausible in humans, as approximately 59% of the total administered

dose is recovered in faeces, and approximately 22% recovered in urine. Based on population

pharmacokinetic results, the apparent oral clearance of tafamidis is 0.263 L/h and the population

mean half-life is approximately 49 hours.

Dose and time linearity

Exposure from once-daily dosing with tafamidis meglumine increased with increasing dose up to

480 mg single dose and multiple doses up to 80 mg/day. In general, increases were proportional

or near proportional to dose and tafamidis clearance was stationary over time.

The relative bioavailability of tafamidis 61 mg is similar to tafamidis meglumine 80 mg at

steady-state. Tafamidis and tafamidis meglumine are not interchangeable on a per mg basis.

LPD rev no.: 2.1

LPD Date: December 26, 2023

Country: Thailand

Reference EU SmPC; date: February 15, 2023

Pharmacokinetic parameters were similar after single and repeated administration of 20 mg dose

of tafamidis meglumine, indicating a lack of induction or inhibition of tafamidis metabolism.

Results of once-daily dosing with 15 mg to 60 mg oral solution tafamidis meglumine for 14 days

demonstrated that steady-state was achieved by Day 14.

Special populations

Hepatic impairment

Pharmacokinetic data indicated decreased systemic exposure (approximately 40%) and increased

total clearance (0.52 L/h versus 0.31 L/h) of tafamidis meglumine in patients with moderate

hepatic impairment (Child-Pugh Score of 7-9 inclusive) compared to healthy subjects due to a

higher unbound fraction of tafamidis. As patients with moderate hepatic impairment have lower

TTR levels than healthy subjects, dosage adjustment is not necessary as the stoichiometry of

tafamidis with its target protein TTR would be sufficient for stabilisation of the TTR tetramer. The

exposure to tafamidis in patients with severe hepatic impairment is unknown.

Renal impairment

Tafamidis has not specifically been evaluated in a dedicated study of patients with renal

impairment. The influence of creatinine clearance on tafamidis pharmacokinetics was evaluated in

a population pharmacokinetic analysis in patients with creatinine clearance greater than

18 mL/min. Pharmacokinetic estimates indicated no difference in apparent oral clearance of

tafamidis in patients with creatinine clearance less than 80 mL/min compared to those with

creatinine clearance greater than or equal to 80 mL/min. Dosage adjustment in patients with renal

impairment is considered not necessary.

Elderly

Based on population pharmacokinetic results, subjects ≥ 65 years had an average 15% lower

estimate of apparent oral clearance at steady-state compared to subjects less than 65 years old.

However, the difference in clearance results in < 20% increases in mean  $C_{\text{max}}$  and AUC compared

to younger subjects and is not clinically significant.

Pharmacokinetic/pharmacodynamic relationships

In vitro data indicated that tafamidis does not significantly inhibit cytochrome P450 enzymes

CYP1A2, CYP3A4, CYP3A5, CYP2B6, CYP2C8, CYP2C9, CYP2C19, and CYP2D6. Tafamidis is

LPD rev no.: 2.1

LPD Date: December 26, 2023

Country: Thailand

Reference EU SmPC; date: February 15, 2023

not expected to cause clinically relevant drug interaction due to induction of CYP1A2, CYP2B6 or CYP3A4.

*In vitro* studies suggest that it is unlikely tafamidis will cause drug interactions at clinically relevant concentrations with substrates of UDP glucuronosyltransferase (UGT) systemically. Tafamidis may inhibit intestinal activities of UGT1A1.

Tafamidis showed a low potential to inhibit Multi-Drug Resistant Protein (MDR1) (also known as P-glycoprotein; P-gp) systemically and in the gastrointestinal (GI) tract, organic cation transporter 2 (OCT2), multidrug and toxin extrusion transporter 1 (MATE1) and MATE2K, organic anion transporting polypeptide 1B1 (OATP1B1) and OATP1B3 at clinically relevant concentrations.

#### 5.3 Preclinical safety data

Nonclinical data revealed no special hazard for humans based on conventional studies of safety pharmacology, fertility and early embryonic development, genotoxicity, and carcinogenic potential. In repeat-dose toxicity and the carcinogenicity studies, the liver appeared as a target organ for toxicity in the different species tested. Liver effects were seen at exposures approximately equal to the human AUC at steady-state at the clinical dose of 61 mg tafamidis.

In a developmental toxicity study in rabbits, a slight increase in skeletal malformations and variations, abortions in few females, reduced embryo-foetal survival, and reduction in foetal weights were observed at exposures approximately ≥ 2.1 times the human AUC at steady-state at the clinical dose of 61 mg tafamidis.

In the rat pre- and postnatal development study with tafamidis, decreased pup survival and reduced pup weights were noted following maternal dose administration during pregnancy and lactation at doses of 15 and 30 mg/kg/day. Decreased pup weights in males were associated with delayed sexual maturation (preputial separation) at 15 mg/kg/day. Impaired performance in a water-maze test for learning and memory was observed at 15 mg/kg/day. The NOAEL for viability and growth in the F1 generation offspring following maternal dose administration during pregnancy and lactation with tafamidis was 5 mg/kg/day (human equivalent dose of tafamidis = 0.8 mg/kg/day), a dose approximately equal to the clinical dose of 61 mg tafamidis.

LPD rev no.: 2.1

LPD Date: December 26, 2023

Country: Thailand

Reference EU SmPC; date: February 15, 2023

# 6. PHARMACEUTICAL PARTICULARS

## 6.1 List of excipients

#### Capsule shell

Gelatine (E 441)

Glycerine (E 422)

Red iron oxide (E 172)

Sorbitan

Sorbitol (E 420)

Mannitol (E 421)

Purified water

#### Capsule contents

Macrogol 400 (E 1521)

Polysorbate 20 (E 432)

Povidone (K-value 90)

Butylated hydroxytoluene (E 321)

# Printing ink (Opacode white)

Ethyl alcohol

Isopropyl alcohol

Purified water

Macrogol 400 (E 1521)

Polyvinyl acetate phthalate

Propylene glycol (E 1520)

Titanium dioxide (E 171)

Ammonium hydroxide (E 527) 28%

## 6.2 Incompatibilities

Not applicable

#### 6.3 Shelf life

2 years

## 6.4 Special precautions for storage

Store below 30 °C

LPD rev no.: 2.1

LPD Date: December 26, 2023

Country: Thailand

Reference EU SmPC; date: February 15, 2023

## 6.5 Nature and contents of container

PVC/PA/alu/PVC-alu unit dose blisters.

Pack sizes: a pack of 30 x 1 soft capsules and a multipack containing 90 (3 packs of 30 x 1) soft capsules.

Not all pack sizes may be marketed.

## 7. MARKETING AUTHORIZATION HOLDER

Pfizer (Thailand) Limited

## **8. MARKETING AUTHORIZATION NUMBER**

1C 15072/65 (NC)

## 9. DATE OF AUTHORIZATION

12 May 2022

# 10. DATE OF REVISION OF THE TEXT

26 December 2023

LPD Revision No.: 2.1

LPD Date: December 26, 2023

Country: Thailand