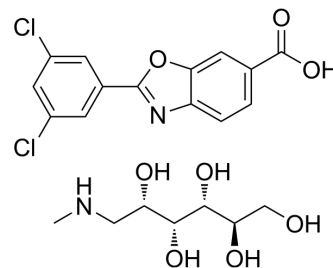


Tafamidis meglumine

Cat. No.:	HY-14852A
CAS No.:	951395-08-7
Molecular Formula:	C ₂₁ H ₂₄ Cl ₂ N ₂ O ₈
Molecular Weight:	503.33
Target:	Transthyretin (TTR)
Pathway:	Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 12.5 mg/mL (24.83 mM; Need ultrasonic)																									
	H ₂ O : < 0.1 mg/mL (insoluble)																									
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="4">Preparing Stock Solutions</td> <td>1 mM</td> <td>1.9868 mL</td> <td>9.9338 mL</td> <td>19.8677 mL</td> </tr> <tr> <td>5 mM</td> <td>0.3974 mL</td> <td>1.9868 mL</td> <td>3.9735 mL</td> </tr> <tr> <td>10 mM</td> <td>0.1987 mL</td> <td>0.9934 mL</td> <td>1.9868 mL</td> </tr> <tr> <td colspan="4">Please refer to the solubility information to select the appropriate solvent.</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	1.9868 mL	9.9338 mL	19.8677 mL	5 mM	0.3974 mL	1.9868 mL	3.9735 mL	10 mM	0.1987 mL	0.9934 mL	1.9868 mL	Please refer to the solubility information to select the appropriate solvent.			
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In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.25 mg/mL (2.48 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (2.48 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (2.48 mM); Clear solution 																									

BIOLOGICAL ACTIVITY

Description	Tafamidis meglumine (Fx-1006A) is a potent and selective transthyretin (TTR) stabilizer, shows comparable potency and efficacy to the mutant homotetramers V30M-TTR, V122I-TTR and wild type WT-TTR, with EC ₅₀ s of 2.7-3.2 μM. Tafamidis meglumine inhibits amyloidogenesis ^[1] .
IC₅₀ & Target	EC ₅₀ : 2.7-3.2 μM (TTR) ^[1]
In Vitro	Tafamidis binds selectively and with negative cooperativity (K _d s -2 nM and -200 nM) to the two normally unoccupied thyroxine-binding sites of the tetramer, and kinetically stabilizes TTR ^[1] .

Tafamidis (0-7.2 μ M) dose-dependently inhibits WT-TTR amyloidogenesis after treatment for 72 hours at a pH of 4.4-4.5^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Med Chem. 2021 Sep 21.

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REFERENCES

[1]. Bulawa CE, et al. Tafamidis, a potent and selective transthyretin kinetic stabilizer that inhibits the amyloid cascade. Proc Natl Acad Sci U S A. 2012 Jun 12;109(24):9629-34.

Caution: Product has not been fully validated for medical applications. For research use only.

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