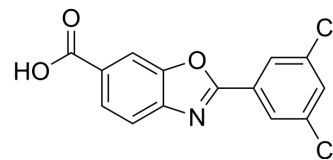


Tafamidis

Cat. No.:	HY-14852	
CAS No.:	594839-88-0	
Molecular Formula:	C ₁₄ H ₇ Cl ₂ NO ₃	
Molecular Weight:	308.12	
Target:	Transthyretin (TTR)	
Pathway:	Neuronal Signaling	
Storage:	Powder	-20°C 3 years 4°C 2 years
	In solvent	-80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 37.5 mg/mL (121.71 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.2455 mL	16.2274 mL	32.4549 mL
		5 mM	0.6491 mL	3.2455 mL	6.4910 mL
10 mM		0.3245 mL	1.6227 mL	3.2455 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (8.11 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (8.11 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.11 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Tafamidis 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 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, C.E., et al., Tafamidis, a potent and selective transthyretin kinetic stabilizer that inhibits the amyloid cascade. Proc Natl Acad Sci U S A, 2012. 109(24): p. 9629-34.

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

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