

Tafamidis-D3

Chemical Properties

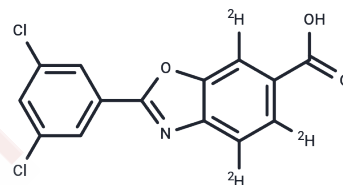
CAS No. :

Formula: C₁₄H₄D₃Cl₂N₂O₃

Molecular Weight: 311.14

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description

Tafamidis-D3 is-D3 is a deuterated compound of Tafamidis. Tafamidis (T4565) has a CAS number of 594839-88-0. Tafamidis (T4565) is a kinetic stabilizer of transthyretin (TTR) that prevents amyloidogenesis by wild-type and mutant TTRs. It binds to TTR with negative cooperativity (KD1: 3 nM; KD2: 278 nM) to stabilize the TTR dimer-dimer interface and inhibit tetrameric dissociation. Tafamidis (T4565) stabilizes wild-type and clinically significant V30M and V122I mutant TTR amyloidogenic homotetramers (EC50s: 2.7-3.2 μM) under fibril-promoting, denaturing, and physiological conditions in vitro. It stabilizes TTR heterotetramers containing wild-type and mutant subunits ex vivo in human plasma derived from patients carrying V30M or V122I mutations when used at a concentration of 7.2 μM. Formulations containing tafamidis have been used for the treatment of familial amyloid polyneuropathy.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.214 mL	16.0699 mL	32.1399 mL
5 mM	0.6428 mL	3.214 mL	6.428 mL
10 mM	0.3214 mL	1.607 mL	3.214 mL
50 mM	0.0643 mL	0.3214 mL	0.6428 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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