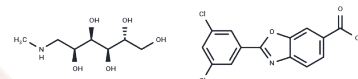


tafamidis meglumine

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 951395-08-7 |
| Formula: | C ₂₁ H ₂₄ Cl ₂ N ₂ O ₈ |
| Molecular Weight: | 503.33 |
| 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 meglumine (Fx-1006A) is a potent and selective transthyretin kinetic stabilizer that inhibits the amyloid cascade. |
| Targets(IC50) | Others |
| In vitro | Tafamidis selectively binds with negative cooperativity (K(d)s ~2 nM and ~200 nM) to the two thyroxine-binding sites of the TTR tetramer, kinetically stabilizing TTR. It also stabilizes patient-derived amyloidogenic TTR variants, including kinetically and thermodynamically less stable mutants[1]. |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 5.04 mg/mL (10.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (1.99 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 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 |
| 50 mM | 0.0397 mL | 0.1987 mL | 0.3974 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

Bulawa C E , Connelly S , Devit M , et al. Tafamidis, a potent and selective transthyretin kinetic stabilizer that inhibits the amyloid cascade[.]. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109(24):p.9629-9634.

Tafamidis Treatment for Patients with Transthyretin Amyloid Cardiomyopathy.[.]. The New England journal of medicine, 2018.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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