

Elamipretide Triacetate

Chemical Properties

CAS No. : 1849610-71-4

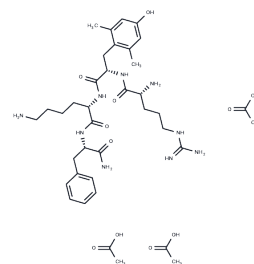
Formula: C38H61N9O11

Molecular Weight: 819.94

Keep away from moisture

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 | Elamipretide Triacetate (Elamipretide TriTFA) is an aromatic-cationic tetrapeptide that readily penetrates cell membranes and transiently localizes to the inner mitochondrial membrane where it associates with cardiolipin. It has been used in trials studying the treatment of Leber's Hereditary Optic Neuropathy. |
| Targets(IC50) | Others, Mitochondrial Metabolism |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 250 mg/mL (304.9 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+90% Saline: 10 mg/mL (12.2 mM), Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (1.22 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 | 1.2196 mL | 6.098 mL | 12.196 mL |
| 5 mM | 0.2439 mL | 1.2196 mL | 2.4392 mL |
| 10 mM | 0.122 mL | 0.6098 mL | 1.2196 mL |
| 50 mM | 0.0244 mL | 0.122 mL | 0.2439 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

Chatfield K C , Sparagna G C , Chau S , et al. Elamipretide Improves Mitochondrial Function in the Failing Human Heart[J]. JACC: Basic to Translational Science, 2019, 4(2):147-157.

Amel, Karaa, Richard, et al. Randomized dose-escalation trial of elamipretide in adults with primary mitochondrial myopathy.[J]. Neurology, 2018.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481