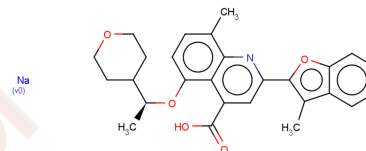


(R)-Posenacافت sodium

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 2095064-09-6 |
| Formula: | C ₂₇ H ₂₇ NNaO ₅ |
| Molecular Weight: | 468.505 |
| 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 | (R)-Posenacافت ((R)-PTI-801) sodium, the R enantiomer of Posenacافت, is a cystic fibrosis transmembrane regulator (CFTR) protein modulator. It corrects the folding and trafficking of the CFTR protein, and is utilized in the research of cystic fibrosis (CF)[1]. |
| Targets(IC50) | Others,CFTR |
| In vitro | Cystic fibrosis (CF), an autosomal recessive disorder caused by mutations in the cystic fibrosis transmembrane conductance regulator (CFTR) gene, results in defective and misfolded CFTR protein, disrupting ion flow across cell membranes. Posenacافت, a CFTR corrector, repairs and restores CFTR function, enabling it to regulate fluid balance in the airways. |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 38.33 mg/mL (81.81 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: 3.3 mg/mL (7.04 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 | 2.1344 mL | 10.6721 mL | 21.3443 mL |
| 5 mM | 0.4269 mL | 2.1344 mL | 4.2689 mL |
| 10 mM | 0.2134 mL | 1.0672 mL | 2.1344 mL |
| 50 mM | 0.0427 mL | 0.2134 mL | 0.4269 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

Benjamin Kopp, et al. Compositions et procédés pour améliorer la fonction cftr dans des cellules affectées par la fibrose kystique. Patent WO2019156946.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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