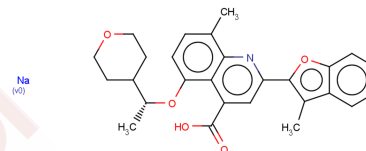


Posenacافتor sodium

Chemical Properties

CAS No. :	2095064-06-3
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	Posenacافتor (PTI-801) sodium, a cystic fibrosis transmembrane regulator (CFTR) modulator, corrects CFTR protein folding and trafficking. It is utilized in researching cystic fibrosis (CF)[1].
Targets(IC50)	Others,CFTR
In vitro	Cystic fibrosis (CF) is an autosomal recessive disorder caused by mutations in the cystic fibrosis transmembrane conductance regulator (CFTR) gene[1]. These mutations result in the production of a defective CFTR protein, impairing ion flow across cell membranes, particularly at the apical membrane of epithelial cells[1]. Posenacافتor serves as a CFTR corrector, a compound designed to repair and restore functional activity to the malfunctioning CFTR protein. Once corrected, CFTR can relocate to the cell surface, acting as a chloride channel to regulate fluid balance in the airways[2].

Solubility Information

Solubility	DMSO: 200 mg/mL (426.89 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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.

Posenacaftor (PTI-801)

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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