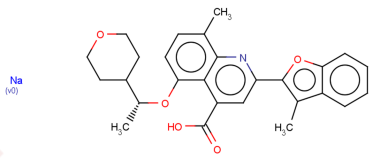
Data Sheet (Cat.No.T36519)

TargetMol
YOUR TARGET MOLECULES

Posenacaftor sodium

Chemical Properties



CAS No. : 2095064-06-3

Formula: C27H27NNaO5

Molecular Weight: 468.505

Appearance: no data available

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

Biological Description

Description	Posenacaftor (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].
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]. Posenacaftor 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 (427.82 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

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.

Reference

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

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481