

VX-150

Chemical Properties

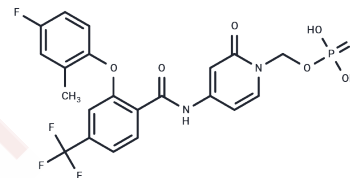
CAS No. : 1793080-72-4

Formula: C₂₁H₁₇F₄N₂O₇P

Molecular Weight: 516.34

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	VX-150 is a highly selective NaV1.8 inhibitor relative to the other sodium channel subtypes (>400-fold).
Targets(IC50)	Sodium Channel

Solubility Information

Solubility	DMSO: 125 mg/mL (242.09 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: 4 mg/mL (7.75 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	1.9367 mL	9.6835 mL	19.3671 mL
5 mM	0.3873 mL	1.9367 mL	3.8734 mL
10 mM	0.1937 mL	0.9684 mL	1.9367 mL
50 mM	0.0387 mL	0.1937 mL	0.3873 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

Hemme J Hijma, et al. A Phase 1, Randomized, Double-Blind, Placebo-Controlled, Crossover Study to Evaluate the Pharmacodynamic Effects of VX-150, a Highly Selective NaV1.8 Inhibitor, in Healthy Male Adults. Pain Med. 2021 Aug 6;22(8):1814-1826.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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