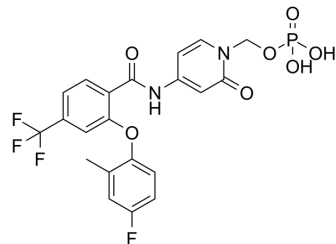


VX-150

Cat. No.:	HY-139346		
CAS No.:	1793080-72-4		
Molecular Formula:	C ₂₁ H ₁₇ F ₄ N ₂ O ₇ P		
Molecular Weight:	516.34		
Target:	Sodium Channel		
Pathway:	Membrane Transporter/Ion Channel		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (242.09 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	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
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.03 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (4.03 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.03 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	VX-150 is an orally active, highly selective Na _v 1.8 inhibitor. VX-150 has the potential for various pain indications research ^[1] .
IC₅₀ & Target	Na _v 1.8
In Vitro	VX-150 is an orally bioavailable pro-drug that rapidly converts into its active moiety, which is a highly selective inhibitor of Na _v 1.8 relative to the other sodium channel subtypes (>400-fold) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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