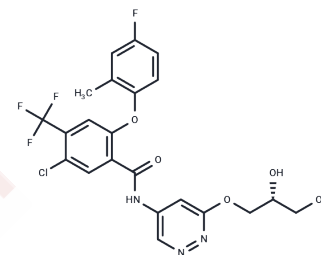


Nav1.8-IN-7

Chemical Properties

CAS No. :	2761181-58-0
Formula:	C ₂₂ H ₁₈ ClF ₄ N ₃ O ₅
Molecular Weight:	515.84
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	Nav1.8-IN-7 (Example 116) serves as a selective inhibitor of Nav1.8, demonstrating more than 50% inhibition at 100 nM specifically for Nav1.8. It exhibits an IC ₅₀ of 15.6 μM for the hERG channel. This compound holds promise in the field of pain research [1].
Targets(IC ₅₀)	Potassium Channel,Sodium Channel
In vitro	Nav1.8-IN-9 (Example 116; 1 μM) exhibits inhibition rates of Nav1.1, Nav1.3, Nav1.4, Nav1.5, Nav1.6, and Nav1.7 of 1.2%, 3.7%, <1%, <1%, 2.6%, and <1%, respectively [1].
In vivo	Pharmacokinetic Parameters of Nav1.8-IN-7 in male Sprague-Dawley rats [1]: PO (100 mg/kg), C _{max} (ng/mL) 2566, AUC ₀₋₂₄ (ng/mLh) 42454, t _{1/2} (h) 8.7."

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9386 mL	9.6929 mL	19.3859 mL
5 mM	0.3877 mL	1.9386 mL	3.8772 mL
10 mM	0.1939 mL	0.9693 mL	1.9386 mL
50 mM	0.0388 mL	0.1939 mL	0.3877 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481