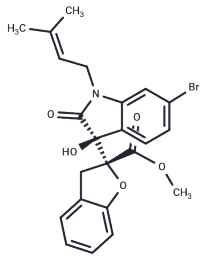
Data Sheet (Cat.No.T209439)

TargetMol

Nav1.7-IN-13

Chemical Properties



CAS No. : 2776235-57-3

Formula: C23H22BrNO5

Molecular Weight: 472.33

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	Nav1.7-IN-13 (compound 3g) is a sodium channel inhibitor that notably suppresses Veratridine-induced neuronal activity. It inhibits the total Na+ current in DRG neurons in a concentration-dependent manner and delays the activation of Navs. Nav1.7-IN-13 significantly alleviates mechanical pain behavior in a rat model of nerve injury (SNI), exhibiting analgesic properties.
Targets(IC50)	Sodium Channel
In vitro	Nav1.7-IN-13 (compound 3g) effectively blocks open sodium channels in an over-excited state. At concentrations of 50-150 μM over 16 hours, it inhibits sodium channel activation in rat DRG neurons in a dose-dependent manner and exhibits safety by not affecting hERG channel current at 150 μM.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1172 mL	10.5858 mL	21.1716 mL
5 mM	0.4234 mL	2.1172 mL	4.2343 mL
10 mM	0.2117 mL	1.0586 mL	2.1172 mL
50 mM	0.0423 mL	0.2117 mL	0.4234 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.

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