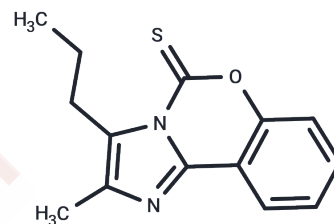


## NaV1.2/1.6 channel blocker-1

## Chemical Properties

CAS No. :	1199944-04-1
Formula:	C <sub>14</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub> S
Molecular Weight:	258.34
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	NaV1.2/1.6 channel blocker-1 is a potent inhibitor of NaV1.2 and NaV1.6 channels, exhibiting inhibitory effects on rNaV1.6 and hNaV1.2. This compound can be utilized in the study of generalized epilepsy and movement disorders.
Targets(IC50)	Sodium Channel
In vitro	NaV1.2/1.6 channel blocker(Compound 13)inhibits 48.5% and 34.0% of NaV1.6 and NaV1.2 sodium currents, respectively, in HEK 293 cells stably expressing rat NaV1.6 and human NaV1.2 isoforms at concentrations ranging from 1 to 100 μM [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8709 mL	19.3543 mL	38.7087 mL
5 mM	0.7742 mL	3.8709 mL	7.7417 mL
10 mM	0.3871 mL	1.9354 mL	3.8709 mL
50 mM	0.0774 mL	0.3871 mL	0.7742 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

Rivara M, et al. Biological Evaluation of Imidazobenzoxazines, Imidazobenzoxazin-5-ones and Imidazobenzoxazin-5-thiones as Sodium Channel Blockers. Letters in Drug Design & Discovery, 2014, 11, 90-97.

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