

VGSCs-IN-1

Chemical Properties

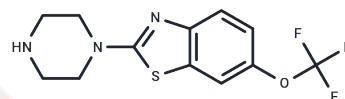
CAS No. : 1204296-79-6

Formula: C₁₂H₁₂F₃N₃O₂S

Molecular Weight: 303.3

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	VGSCs-IN-1 is a potent VGSC inhibitor, a 2-piperazine analog of Riluzole that exhibits good blocking activity on Nav1.4. VGSCs-IN-1 can be used to study cellular excitability disorders.
Targets(IC50)	Sodium Channel

Solubility Information

Solubility	DMSO: 50 mg/mL (164.85 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2971 mL	16.4853 mL	32.9707 mL
5 mM	0.6594 mL	3.2971 mL	6.5941 mL
10 mM	0.3297 mL	1.6485 mL	3.2971 mL
50 mM	0.0659 mL	0.3297 mL	0.6594 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

Farinato A, et al. Development of Riluzole Analogs with Improved Use-Dependent Inhibition of Skeletal Muscle Sodium Channels. ACS Med Chem Lett. 2023 Jun 23;14(7):999-1008.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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