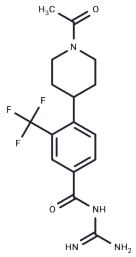
Data Sheet (Cat.No.T14566)

TargetMol

BI-9627

Chemical Properties



CAS No. : 1204329-34-9

Formula: C16H19F3N4O2

Molecular Weight: 356.34

Storage: Store at low temperature
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	BI-9627 is a selective and potent sodium hydrogen exchange isomer 1 (NHE1) inhibitor. BI-9627 partially reverses the effects of DMA with IC50 values of 6 and 31 nM in the intracellular pH recovery (pHi) and human platelet lysis assays.BI-9627 is often used as a negative control for BI-0054, which can be used for the study of ischemia-reperfusion injury in isolated hearts. BI-9627 is often used as a negative control for BI-0054 and can be used to study ischemia-reperfusion injury in isolated hearts.
Targets(IC50)	Sodium Channel

Solubility Information

Solubility	DMSO: 80 mg/mL (224.5 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (9.26 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8063 mL	14.0315 mL	28.0631 mL
5 mM	0.5613 mL	2.8063 mL	5.6126 mL
10 mM	0.2806 mL	1.4032 mL	2.8063 mL
50 mM	0.0561 mL	0.2806 mL	0.5613 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

Huber JD, et al. Identification of a potent sodium hydrogen exchanger isoform 1 (NHE1) inhibitor with a suitableprofile for chronic dosing and demonstrated cardioprotective effects in a preclinical model of myocardial infarction in the rat. J Med Chem. 2012 Aug 23;55(16):7114-40.