BI-9627

Cat. No.:	HY-18071			
CAS No.:	1204329-34	-9		
Molecular Formula:	$C_{16}H_{19}F_{3}N_{4}O$	2		
Molecular Weight:	356.34			
Target:	Na+/H+ Exchanger (NHE)			
Pathway:	Membrane Transporter/Ion Channel			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

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SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (2	D : 100 mg/mL (280.63 mM; Need ultrasonic)					
Preparing Stock Solutions		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	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			
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.84 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.84 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.84 mM); Clear solution						

Description	BI-9627 is potent sodium-hydrogen exchanger isoform 1 (NHE1) inhibitor, with IC ₅₀ s of 6 and 31 nM in intracellular pH recovery (pHi) and human platelet swelling assays, respectively. BI-9627 displays >30-fold selectivity against NHE2 and with no measurable inhibitory activity against the NHE3 isoform. BI-9627 shows low DDI (agent-agent interaction) potential, excellent pharmacokinetics in rat and dog, and remarkably potent activity in the isolated heart model of ischemia-reperfusion injury ^[1] .					
IC ₅₀ & Target	IC50: 6 nM (NHE1 in intracellular pH recovery assay), 31 nM (NHE1 in human platelet swelling assay) $^{[1]}$					

Product Data Sheet

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CUSTOMER VALIDATION

• Hum Reprod. 2024 Feb 14:deae020.

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REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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