

JNc-440

Chemical Properties

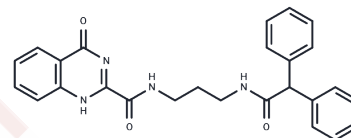
CAS No. : 1119503-63-7

Formula: C₂₆H₂₄N₄O₃

Molecular Weight: 440.49

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	JNc-440 is a potent antihypertensive agent that enhances the functional interaction between TRPV4 channels and Ca ²⁺ -activated potassium channel 3 (KCa2.3) in endothelial cells, thereby promoting vasodilation and reducing vascular resistance, JNc-440 is widely used in cardiovascular research to elucidate endothelial signaling mechanisms and blood pressure regulation in vivo.
Targets(IC50)	Potassium Channel,TRP/TRPV Channel
In vivo	In mouse models of hypertension induced by L-NAME, Angiotensin II, or a high-salt diet, intravenous (i.v.) administration of JNc-440 at a dose of 1 mg/kg lowered blood pressure [1].

Solubility Information

Solubility	DMSO: 40 mg/mL (90.81 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	2.2702 mL	11.351 mL	22.702 mL
5 mM	0.454 mL	2.2702 mL	4.5404 mL
10 mM	0.227 mL	1.1351 mL	2.2702 mL
50 mM	0.0454 mL	0.227 mL	0.454 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

He D, et al. Treatment of hypertension by increasing impaired endothelial TRPV4-KCa2. 3 interaction. EMBO Mol Med. 2017 Nov;9(11):1491-1503.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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