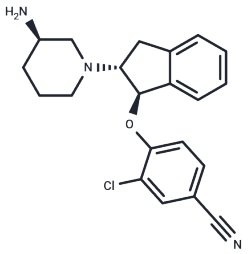
Data Sheet (Cat.No.T12849)

SAR7334

Chemical Properties



CAS No. : 1333210-07-3

Formula: C21H22ClN3O

Molecular Weight: 367.87

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	SAR7334 (TRCP6-IN-1) is a potent and specific inhibitor of TRPC6(IC50 of 7.9 nM).
Targets(IC50)	TRP/TRPV Channel
In vitro	SAR7334 is an inhibitor of TRPC6, TRPC3 and TRPC7-mediated Ca2+ influx into cells(IC50s of 9.5, 282 and 226 nM)[1][2][3], whereas TRPC4 and TRPC5-mediated Ca2+ entry is not affected. SAR7334 (1 μM) results in a major block of the Ang II-evoked calcium influx in the podocytes[1].SAR7334 dose-dependently reduces TRPC6 currents (IC50 of 7.9 nM). SAR7334 (100 nM) substantially reduces TRPC6 currents[3].
In vivo	In isolated perfused lungs from mice, SAR7334 (10mg/kg, p.o.) inhibits TRPC6-dependent acute HPV . SAR7334 demonstrates that it is suitable for chronic oral administration. In an initial short-term study, SAR7334 does not change mean arterial pressure in spontaneously hypertensive rats (SHR)[3].

Solubility Information

Solubility	DMSO: 350 mg/mL (951.42 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7184 mL	13.5918 mL	27.1835 mL
5 mM	0.5437 mL	2.7184 mL	5.4367 mL
10 mM	0.2718 mL	1.3592 mL	2.7184 mL
50 mM	0.0544 mL	0.2718 mL	0.5437 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

Ilatovskaya DV, et al. The Role of Angiotensin II in Glomerular Volume Dynamics and Podocyte Calcium Handling. Sci Rep. 2017 Mar 22;7(1):299.
Chauvet S, et al. Pharmacological Characterization of the Native Store-Operated Calcium Channels of Cortical Neurons from Embryonic Mouse Brain. Front Pharmacol. 2016 Dec 12;7:486.
Maier T, et al. Discovery and pharmacological characterization of a novel potent inhibitor of diacylglycerol-sensitive TRPC cation channels. Br J Pharmacol. 2015 Jul;172(14):3650-60.

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