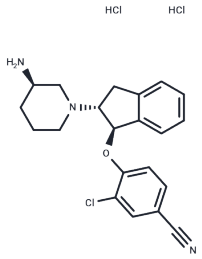
Data Sheet (Cat.No.T12849L)

TargetMol

SAR7334 hydrochloride

Chemical Properties



CAS No. : 1333207-63-8

Formula: C21H24Cl3N3O

Molecular Weight: 440.79

Appearance: no data available

Storage: store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	SAR7334 hydrochloride, a potent and specific inhibitor of TRPC6 (IC50 of 7.9 nM), effectively targets and inhibits the TRPC6 channel.
Targets(IC50)	Others
In vitro	SAR7334 inhibits TRPC6, TRPC3, and TRPC7-mediated Ca2+ influx into cells (IC50s of 9.5, 282, and 226 nM, respectively) [1][2][3], while TRPC4 and TRPC5-mediated Ca2+ entry remains unaffected. At 1 μM, SAR7334 significantly blocks Ang II-evoked calcium influx in podocytes [1]. SAR7334 dose-dependently reduces TRPC6 currents with an IC50 of 7.9 nM, and at 100 nM, it substantially reduces TRPC6 currents [3].
In vivo	In isolated perfused lungs from mice, SAR7334 (10?mg/kg, p.o.) inhibits TRPC6-dependent acute HPV. 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: 100 mg/mL (226.87 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2687 mL	11.3433 mL	22.6865 mL
5 mM	0.4537 mL	2.2687 mL	4.5373 mL
10 mM	0.2269 mL	1.1343 mL	2.2687 mL
50 mM	0.0454 mL	0.2269 mL	0.4537 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.

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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