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产品名称：SAR7334
产品别名：SAR7334

生物活性：

Description	SAR7334 is a potent and specific TRPC6 inhibitor, inhibiting TRPC6 currents with IC50 of 7.9 nM.
IC_{50} & Target	IC50: 7.9 nM (TRPC6 currents)[3]
In Vitro	SAR7334 inhibits TRPC6, TRPC3 and TRPC7-mediated Ca^{2+} influx into cells with IC_{50}s of 9.5, 282 and 226 nM[1][2][3], whereas TRPC4 and TRPC5-mediated Ca^{2+} entry is not affected. SAR7334 (1 μM) results in a major block of the Ang II-evoked calcium influx in the podocytes[1]. SAR7334 (1 μM) has negligible effect on SOCE[2]. SAR7334 dose-dependently reduces TRPC6 currents with an IC_{50} of 7.9 nM. SAR7334 (100 nM) substantially reduces TRPC6 currents[3].
In Vivo	SAR7334 (10 mg/kg, p.o.) suppresses TRPC6-dependent acute HPV in isolated perfused lungs from mice. 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].
Solvent&Solubility	***In Vitro:*** **DMSO： ≥ 370 mg/mL (1005.79 mM)** * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
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

*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。

储备液的保存方式和期限：-80°C, 6 months; -20°C, 1 month。-80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。

References

[1]. 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.

[2]. 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.

[3]. 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.