

SAR7334 (hydrochloride)

Catalog No: tcsc2104



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

1333207-63-8

Formula:

$C_{21}H_{24}Cl_3N_3O$

Pathway:

Membrane Transporter/Ion Channel

Target:

TRP Channel

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

440.79

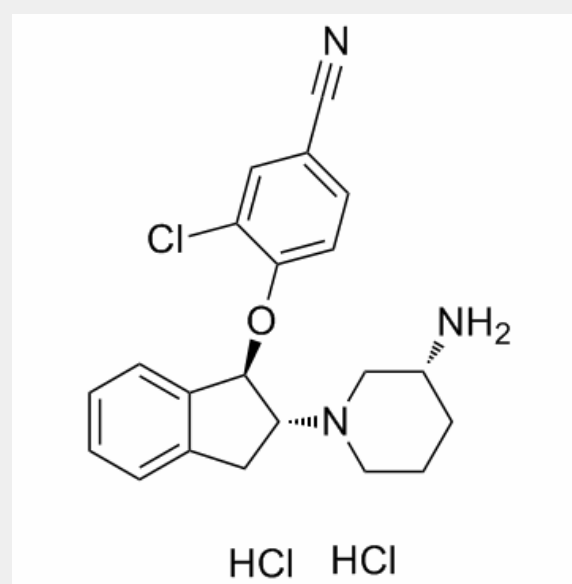
Product Description

SAR7334 hydrochloride is a potent and specific **TRPC6** inhibitor, inhibiting TRPC6 currents with **IC₅₀** of 7.9 nM.

IC50 & 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].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!