Certificate of Analysis

Product Name: **SAR 7334** **Catalog No.: 5831** **Batch No.: 1**

CAS Number: 1333207-63-8

IUPAC Name: 4-[[(1*R*,2*R*)-2-[(3*R*)-3-Amino-1-piperidinyl]-2,3-dihydro-1*H*-inden-1-yl]oxy]-3-chlorobenzonitrile dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{21}H_{22}ClN_3O.2HCl.1¼H_2O$

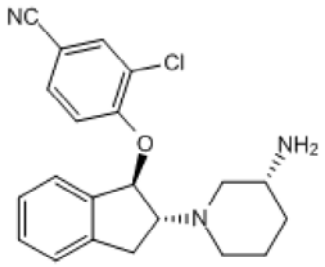
Batch Molecular Weight: 463.31

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2HCl

2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: $[\alpha]_D$ = -237.4 (Concentration = 1, Solvent = Methanol)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.44	5.76	9.07
Found	54.1	5.67	8.87

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Description:

Potent TRPC6 inhibitor (IC_{50} values are 9.5, 226 and 282 nM for TRPC6, TRPC7 and TRPC3-mediated Ca^{2+} influx). Exhibits no significant activity at TRPC4 and TRPC5 channels. Suppresses TRPC6-dependent acute hypoxic pulmonary vasoconstriction (HPV) in the isolated perfused mouse lung. Orally bioavailable.

Physical and Chemical Properties:

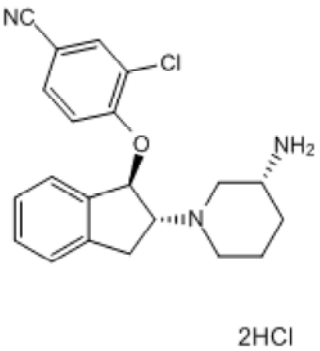
Batch Molecular Formula: $C_{21}H_{22}ClN_3O.2HCl.1¼H_2O$

Batch Molecular Weight: 463.31

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



2HCl

Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM
DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Maier *et al* (2015) Discovery and pharmacological characterization of a novel potent inhibitor of diacylglycerol-sensitive TRPC cation channels. Br.J.Pharmacol. ***172*** 3650. PMID: 25847402.