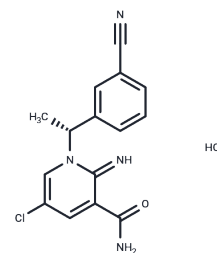


ADRA1D receptor antagonist 1 HCl

Chemical Properties

CAS No. :	1191908-14-1
Formula:	C ₁₅ H ₁₄ Cl ₂ N ₄ O
Molecular Weight:	337.2
Appearance:	no data available
Storage:	keep away from direct sunlight, keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	ADRA1D receptor antagonist 1 HCl is an orally active, potent and selective α 1D adrenergic receptor antagonist (K_i : 1.6 nM) with potential antiproliferative activity.
Targets(IC ₅₀)	Adrenergic Receptor
In vitro	ADRA1D receptor antagonist 1 exhibits low hERG inhibition and higher selectivity for α 1D-AR over α 1A- and α 1B-ARs, without affecting α 1A- and α 1B-ARs[1].
In vivo	In the rat model of bladder outlet obstruction (BOO), ADRA1D receptor antagonist 1 (4.4 μ g/kg; intravenous injection) dose-dependently decreased the occurrence of non-voiding bladder contractions during the urinary storage phase[1].
Animal Research	Animal Model: Rat with bladder outlet obstruction (BOO). Dosage: 4.4 μ g/kg. Administration: Intravenous injection

Solubility Information

Solubility	DMSO: 80 mg/mL (237.25 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9656 mL	14.828 mL	29.656 mL
5 mM	0.5931 mL	2.9656 mL	5.9312 mL
10 mM	0.2966 mL	1.4828 mL	2.9656 mL
50 mM	0.0593 mL	0.2966 mL	0.5931 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

Sakauchi N, et al. Discovery of 5-Chloro-1-(5-chloro-2-(methylsulfonyl)benzyl)-2-imino-1,2-dihydropyridine-3-carboxamide (TAK-259) as a Novel, Selective, and Orally Active α 1D Adrenoceptor Antagonist with Antiurinary

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286

E_mail: info@targetmol.com

Address: 36 Washington Street, Wellesley Hills, MA 02481