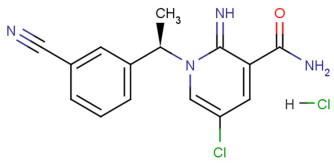
Data Sheet (Cat.No.T10250)

TargetMol
A DRUG SCREENING EXPERT

ADRA1D receptor agonist 1

Chemical Properties



CAS No.:	1191908-14-1
Formula:	C15H14Cl2N4O
Molecular Weight:	337.2
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	ADRA1D receptor agonist 1 is a potent, selective, and orally active α1D adrenoceptor antagonist (Ki: 1.6 nM).
Targets(IC_{50})	α1D adrenoceptor(ki): ki:1.6 nM
In vitro	ADRA1D receptor agonist 1 shows low hERG inhibition. It exhibits higher selectivity for α1D-AR over α1A- and α1B-ARs.
In vivo	ADRA1D receptor agonist 1 (4.4 μg/kg; i.v.) dose-dependently decreases the non-voiding bladder contractions during the urinary storage phase in rats with BOO.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.966 mL	14.828 mL	29.656 mL
5 mM	0.593 mL	2.966 mL	5.931 mL
10 mM	0.297 mL	1.483 mL	2.966 mL
50 mM	0.059 mL	0.297 mL	0.593 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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 α1D Adrenoceptor Antagonist with Antiurinary Frequency Effects: Reducing Human Ether-a-go-go-Related Gene (hERG) Liabilities. J Med Chem. 2016 Apr 14;59(7):2989-3002.

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