# R MCE MedChemExpress

# Product Data Sheet

# Inhibitors • Screening Libraries • Proteins

# ADRA1D receptor antagonist 1

Cat. No.:	HY-135270	
CAS No.:	1191908-14-1	
Molecular Formula:	$C_{15}H_{14}Cl_2N_4O$	NH O
Molecular Weight:	337.2	N NH2
Target:	Adrenergic Receptor	
Pathway:	GPCR/G Protein; Neuronal Signaling	H-CI CI
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	

# SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.9656 mL	14.8280 mL	29.6560 mL
		5 mM	0.5931 mL	2.9656 mL	5.9312 mL
		10 mM	0.2966 mL	1.4828 mL	2.9656 mL

	VITV	
DIOLOGICALACITY		
Description	ADRA1D receptor antagon	ist 1 is a potent, selective and orally active $\alpha_{1D}$ adrenoceptor antagonist, with a K_i of 1.6 nM $^{[1]}$ .
IC <sub>50</sub> & Target	Ki: 1.6 nM ( $\alpha_{1D}$ adrenocept	tor) <sup>[1]</sup>
In Vitro	ADRA1D receptor antagonist 1 shows low hERG inhibition <sup>[1]</sup> . ADRA1D receptor antagonist 1 exhibits higher selectivity for α1D-AR over α1A- and α1B-ARs <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	ADRA1D receptor antagoni urinary storage phase in ra MCE has not independentl Animal Model:	ist 1 (4.4 μg/kg; i.v.) dose-dependently decreases the non-voiding bladder contractions during the ats with BOO <sup>[1]</sup> . In y confirmed the accuracy of these methods. They are for reference only. Rat with bladder outlet obstruction (BOO) <sup>[1]</sup>
	Dosage:	4.4 µg/kg

Administration:	Intravenous injection
Result:	Dose-dependently decreased the non-voiding bladder contractions during urinary storag phase in rats with BOO.

## REFERENCES

[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 Ethe

### Caution: Product has not been fully validated for medical applications. For research use only.

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