Product Data Sheet

Product Name: ADRA1D receptor antagonist 1
Cat. No.: GC68627

Chemical Properties

Cas. No.	1191908-14-1		
Formula	$C_{15}H_{14}Cl_2N_4O$	M.Wt	337.2
Solubility	DMSO : 100 mg/mL (296.56 mM; Need ultrasonic)	Storage	4°C, away from moisture and light
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	ADRA1D receptor antagonist 1		

Background

ADRA1D receptor antagonist 1 is a potent, selective and orally active **α_{1D} adrenoceptor** antagonist, with a **K_i** of 1.6 nM[1].

ADRA1D receptor antagonist 1 shows low hERG inhibition[1].
ADRA1D receptor antagonist 1 exhibits higher selectivity for α1D-AR over α1A- and α1B-ARs [1].

ADRA1D receptor antagonist 1 (4.4 μg/kg; i.v.) dose-dependently decreases the non-voiding bladder contractions during the urinary storage phase in rats with BOO[1].

Animal Model:	Rat with bladder outlet obstruction (BOO)[1]
Dosage:	4.4 μg/kg
Administration:	Intravenous injection

Caution: Product has not been fully validated for medical applications. For research use only.
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Result:	Dose-dependently decreased the non-voiding bladder contractions during urinary storage phase in rats with BOO.

[1]. Sakauchi N, et al. Discovery of 5-Chloro-1-(5-chloro-2-(metlsulfonyl)benzyl)-2-imino-1,2-didropyridine-3-carboxamide (TAK-259) as a Novel, Selective, and Orally Active α1D Adrenoceptor Antagonist with Antiurinary Frequency Effects: Reducing Human Ethe

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