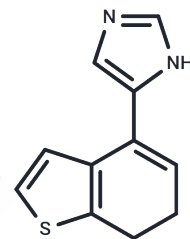


RWJ52353 hydrochloride

Chemical Properties

CAS No. :	245744-13-2
Formula:	C ₁₁ H ₁₁ ClN ₂ S
Molecular Weight:	238.73
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



HCl

Biological Description

Description	RWJ-52353 hydrochloride is a potent oral agonist of the α 2D adrenergic receptor (K _i : 1.5 nM) with potential analgesic properties. It exhibits pain-relief activity in abdominal tests on rats and mice and reduces agitation in mice during the hot plate and tail flick tests. Furthermore, RWJ-52353 hydrochloride modulates the organic cation transporter (OCT) subtypes by inhibiting rOCT1 and rOCT2 with IC ₅₀ values of 100 μ M and 20 μ M, respectively, and activating rOCT3, influencing the transport of [3H]-1-methyl-4-phenylpyridinium ([3H]MPP) in cells [1] [2].
Targets(IC50)	Adrenergic Receptor
In vivo	RWJ-52353 (30 mg/kg; po) hydrochloride exhibits complete inhibition (100%) in a mouse model of induced abdominal pain [1]. The ED ₅₀ values of RWJ-52353 in induced abdominal pain models for rats and mice are 15.1 mg/kg (po) and 11.6 mg/kg (po), respectively [1]. Additionally, RWJ-52353 alleviates pain in the mouse hot plate test (48° C) and tail-flick test, with ED ₅₀ values of 25.9 mg/kg (po) and 100.2 mg/kg (po), respectively [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1888 mL	20.9442 mL	41.8883 mL
5 mM	0.8378 mL	4.1888 mL	8.3777 mL
10 mM	0.4189 mL	2.0944 mL	4.1888 mL
50 mM	0.0838 mL	0.4189 mL	0.8378 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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