Product Data Sheet

Product Name: (S)-WAY 100135 dihydrochloride
Cat. No.: GC14805

Chemical Properties

Cas. No.	149007-54-5		
Chemical Name	(S,Z)-N-(tert-butyl)-3-(4-(2-methoxyphenyl)piperazin-1-yl)-2-phenylpropanimidic acid dihydrochloride		
SMILES	CC(C)(/N=C(O)/[C@](C1=CC=CC=C1)([H])CN2CCN(C3=CC=CC=C3OC)CC2)C.Cl.Cl		
Formula	$C_{24}H_{33}N_3O_2$.2HCl	M.Wt	468.47
Solubility	<46.85mg/ml in DMSO	Storage	Store at -20°C
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			

Background

(S)-WAY 100135 dihydrochloride is a potent and selective antagonist of 5-HT1A receptor with IC50 value of 15 nM.

The 5-HT1A receptor is a G protein-coupled receptor for endogenous neurotransmitter serotonin (5-HT) and mediates inhibitory neurotransmission.

(S)-WAY 100135 dihydrochloride is a potent and selective somatodendritic and postsynaptic 5-HT1A receptors antagonist. (+/-)-WAY100135 inhibited 5-HT1A receptor in the rat hippocampal with IC50 value of 34 nM [1].

In the murine elevated plus-maze test, (S)-WAY 100135 (10 mg/kg) exhibited anxiolytic-like effects [2]. In free feeding rats, WAY-100135 (3 mg/kg) significantly inhibited hyperphagia and the increased incidence of feeding induced by 8-OH-DPAT (0.1 mg/kg), which was mediated by somatodendritic 5-HT1A autoreceptor [3]. In rats, (S)-WAY

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

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100135 (0.2, 1, 5 ug/ul) inhibited the impairment of choice accuracy induced by intrahippocampal scopolamine (3.75 ug/ul) in a dose-dependent way. However, (S)-WAY 100135 didn’t influence the acquisition of spatial learning [4]. In rats, WAY-100135 (10.0 mg/kg) inhibited the decrease of 5-HT release induced by buspirone, a 5-HT1A receptor partial agonist [5].

References:
[1]. Fletcher A, Bill DJ, Bill SJ, et al. WAY100135: a novel, selective antagonist at presynaptic and postsynaptic 5-HT1A receptors. Eur J Pharmacol, 1993, 237(2-3): 283-291.
[2]. Rodgers RJ, Cole JC. Anxiolytic-like effect of (S)-WAY 100135, a 5-HT1A receptor antagonist, in the murine elevated plus-maze test. Eur J Pharmacol, 1994, 261(3): 321-325.
[3]. Hartley JE, Fletcher A. The effects of WAY-100135 and 8-hydroxy-2-(di-n-propylamino)tetralin on feeding in the rat. Eur J Pharmacol, 1994, 252(3): 329-332.
[4]. Carli M, Luschi R, Samanin R. (S)-WAY 100135, a 5-HT1A receptor antagonist, prevents the impairment of spatial learning caused by intrahippocampal scopolamine. Eur J Pharmacol, 1995, 283(1-3): 133-139.
[5]. Routledge C, Gurling J, Ashworth-Preece MA, et al. Differential effects of WAY-100135 on the decrease in 5-hydroxytryptamine release induced by buspirone and NAN-190. Eur J Pharmacol, 1995, 276(3): 281-284.

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