Product Data Sheet

Product Name: Cipralisant (GT-2331)
Cat. No.: GC31269

Chemical Properties

Cas. No.	213027-19-1		
SMILES	CC(C)(C)CCC#C[C@H]1[C@H](C2=CN=CN2)C1		
Formula	$C_{14}H_{20}N_2$	M.Wt	216.32
Solubility	DMSO : 200 mg/mL (924.56 mM; Need ultrasonic)	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	Cipralisant (GT-2331)		

Background

Cipralisant is a potent and selective histamine H3 receptor antagonist in vivo, and an agonist in vitro, with a pKi of 9.9 for histamine H3 receptor and a Ki of 0.47 nM for rat histamine H3 receptor; Cipralisant has entered in clinical trials for the treatment of attention-deficit hyperactivity disorder.

Cipralisant (GT-2331) is a potent histamine H3 receptor antagonist with a pKi of 9.9[1] and a Ki of 0.47 nM for rat histamine H3 receptor[2]. Cipralisant acts as a full agonist at the recombinant rat histamine H3 receptor in vitro, and potently inhibits forskolin-induced cAMP accumulation with an EC50 of 0.23 nM. Cipralisant increases the basal [35S]GTPγS binding activities in membranes from HEK cells expressing the rat histamine H3 receptor (EC50, 5.6 nM)[2].

Cipralisant (GT-2331) acts as an antagonist of histamine H3 receptor, and blocks R-α-methylhistamine (a histamine H3 receptor agonist)-induced water intake at 10 mg/kg via oral administration in rats[2].

[1]. Tedford CE, et al. High antagonist potency of GT-2227 and GT-2331, new histamine

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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H3 receptor antagonists, in two functional models. Eur J Pharmacol. 1998 Jun 26;351(3):307-11. [2]. Ito S, et al. Detailed pharmacological characterization of GT-2331 for the rat histamine H3 receptor. Eur J Pharmacol. 2006 Jan 4;529(1-3):40-6.

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