Product Data Sheet

Product Name: Ciproxifan
Cat. No.: GC12924

Chemical Properties

Cas. No.	184025-18-1		
Chemical Name	cyclopropyl-[4-[3-(1H-imidazol-5-yl)propoxy]phenyl]methanone		
SMILES	C1CC1C(=O)C2=CC=C(C=C2)OCCCC3=CN=CN3		
Formula	$C_{16}H_{18}N_2O_2$	M.Wt	270.33
Solubility	Soluble 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	Ciproxifan		

Background

Ciproxifan is a novel and potent antagonist of histamine H3-receptor with a IC50 value of 9.2±1.8nM [1].

Ciproxifan has shown the in-vitro antagonistic action to H3-receptor with a IC50 value of 9.2±1.8nM. In addition, Ciproxifan has been reported to competitively antagonize the (R) α-MeHA induced relaxation of electrically stimulated guinea pig ileum longitudinal muscle. Besides, Ciproxifan has been revealed to have the effect on [125I]iodoproxyfan binding with a Ki value of 0.7±0.2 nM. Apart from these, Ciproxifan has been found to be a selective antagonist with pKi values of 9.3, 4.9, 4.6, 5.5, 5.4, 4.9, <5.0, 4.8, <5.5 and <5.7 for H3, H2, H1, muscarinic M3, adrenergic α1D, β1, serotonin 5-HT1B, 5-HT2A, 5-HT3 and 5-HT4, respectively [1].

References:
[1] Ligneau X1, Lin J, Vanni-Mercier G, Jouvet M, Muir JL, Ganellin CR, Stark H, Elz S, Schunack W, Schwartz J. Neurochemical and behavioral effects of ciproxifan, a potent

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histamine H3-receptor antagonist. J Pharmacol Exp Ther. 1998 Nov; 287(2):658-66.

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