

UR-PI376

Chemical Properties

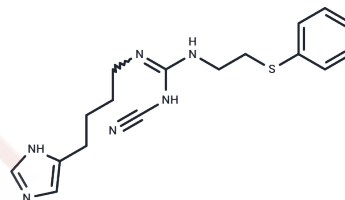
CAS No. : 1192559-94-6

Formula: C17H22N6S

Molecular Weight: 342.46

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	UR-PI376 is a histamine H4 receptor agonist (hH4R agonist) (pEC50 = 7.47, alpha = 0.93), with low activity for hH1R and hH2R and significant selectivity for hH3R (pKB = 6.00, alpha = -0.28), as in stable-use a membrane preparation of hH(x)R-expressing Sf9 cells for state GTPase detection.
Targets(IC50)	Others, Histamine Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.920 mL	14.6002 mL	29.2005 mL
5 mM	0.584 mL	2.920 mL	5.8401 mL
10 mM	0.292 mL	1.460 mL	2.920 mL
50 mM	0.0584 mL	0.292 mL	0.584 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.

Reference

Geyer R, Nordemann U, Strasser A, Wittmann HJ, Buschauer A. Conformational Restriction and Enantioseparation Increase Potency and Selectivity of Cyanoguanidine-Type Histamine H(4) Receptor Agonists. *J Med Chem*. 2016 Apr 5. [Epub ahead of print] PubMed PMID: 27007611.

Wifling D, Bernhardt G, Dove S, Buschauer A. The extracellular loop 2 (ECL2) of the human histamine H4 receptor substantially contributes to ligand binding and constitutive activity. *PLoS One*. 2015 Jan 28;10(1):e0117185. doi: 10.1371/journal.pone.0117185. eCollection 2015. Erratum in: *PLoS One*. 2015;10(3):e0122162. PubMed PMID: 25629160; PubMed Central PMCID: PMC4309601.

Werner K, Neumann D, Buschauer A, Seifert R. No evidence for histamine H4 receptor in human monocytes. *J Pharmacol Exp Ther*. 2014 Dec;351(3):519-26. doi: 10.1124/jpet.114.218107. Epub 2014 Oct 1. PubMed PMID: 25273276.

Gschwandtner M, Koether B, Werfel T, Stark H, Gutzmer R. Profiling of histamine H4 receptor agonists in native human monocytes. *Br J Pharmacol*. 2013 Sep;170(1):136-43. doi: 10.1111/bph.12237. PubMed PMID: 23638754; PubMed Central PMCID: PMC3764855.

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