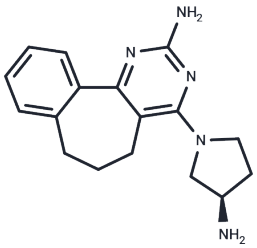
Data Sheet (Cat.No.T73352)

TargetMol

A-943931

Chemical Properties



CAS No. : 1027330-97-7

Formula: C17H21N5

Molecular Weight: 295.38

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	A-943931 is a selective histamine H4 receptor antagonist with human and rat Ki values of 4.6 and 3.8 nM respectively. It inhibits the scratching response in mice and exhibits anti-pruritic activity.
Targets(IC50)	Histamine Receptor
In vivo	In the mouse zymosan-induced peritonitis model, A-943931 demonstrated significant anti-inflammatory activity through either subcutaneous or intraperitoneal administration, with ED_{50} values of 34 μmol/kg and 33 μmol/kg, respectively [2]. In rat models of inflammatory pain and neuropathic pain, A-943931 (10, 30, and 100 μmol/kg, intraperitoneal injection) exhibited marked analgesic effects [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3855 mL	16.9273 mL	33.8547 mL
5 mM	0.6771 mL	3.3855 mL	6.7709 mL
10 mM	0.3385 mL	1.6927 mL	3.3855 mL
50 mM	0.0677 mL	0.3385 mL	0.6771 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

Ivan Milicic, et al. Identification of two potent and selective histamine H4 receptor antagonists with antipruritic activity. The FASEB journal homepage. 2009.

Cowart MD, et al. Rotationally constrained 2,4-diamino-5,6-disubstituted pyrimidines: a new class of histamine H4 receptor antagonists with improved druglikeness and in vivo efficacy in pain and inflammation models. J Med Chem. 2008 Oct 23;51(20):6547-57.

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