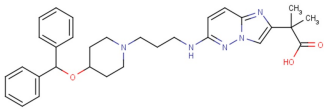
Data Sheet (Cat.No.T13566)

TargetMol
A DRUG SCREENING EXPERT

Bamirastine

Chemical Properties



CAS No.:	215529-47-8
Formula:	C31H37N5O3
Molecular Weight:	527.66
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Bamirastine (TAK-427) inhibits ligand binding to recombinant human histamine H1 receptors (rhH1R; IC50: 17.3 nM).
Targets(IC_{50})	rhH1R: 17.3 nM
In vitro	Bamirastine reduces specific binding of [3H] pyrilamine to rhH1R is seen in a concentration-dependent manner (IC50: 17.3 nM). The Ki value is calculated to be 7.35 nM. The affinity of Bamirastine is as high as that of azelastine, 2 times lower than that of Epinastine, 8 times lower than that of ketotifen, and 3 times higher than that of Terfenadine.
In vivo	Bamirastine inhibits histamine-induced skin reactions in guinea pigs and mice (ID50s: 0.884 and 0.450 mg/kg, p.o.). The significant inhibition associated with 10 mg/kg of Bamirastine is still observed 24 h after dosing in guinea pigs. Even at 300 mg/kg, Bamirastine does not affect pentobarbital-induced sleeping time in mice. Bamirastine significantly inhibits passive cutaneous anaphylaxis (PCA) in mice and guinea pigs and also inhibits antigen-induced ISRs in guinea pigs.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.895 mL	9.476 mL	18.952 mL
5 mM	0.379 mL	1.895 mL	3.79 mL
10 mM	0.19 mL	0.948 mL	1.895 mL
50 mM	0.038 mL	0.19 mL	0.379 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Fukuda S, et al. Characteristics of the antihistamine effect of TAK-427, a novel imidazopyridazine derivative. Inflamm Res. 2003 May;52(5):206-14.

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