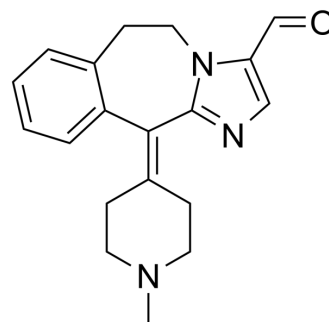


Alcaftadine

Cat. No.:	HY-17039		
CAS No.:	147084-10-4		
Molecular Formula:	C ₁₉ H ₂₁ N ₃ O		
Molecular Weight:	307.39		
Target:	Histamine Receptor		
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 40 mg/mL (130.13 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent \ Mass	1 mg	5 mg	10 mg
	Concentration			
	1 mM	3.2532 mL	16.2660 mL	32.5320 mL
	5 mM	0.6506 mL	3.2532 mL	6.5064 mL
	10 mM	0.3253 mL	1.6266 mL	3.2532 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Alcaftadine (R89674) is a histamine H1 receptor antagonist, which is used to prevent eye irritation brought on by allergic conjunctivitis. Alcaftadine is a broad-spectrum antihistamine displaying a high affinity for histamine H1 and H2 receptors and a lower affinity for H4 receptors. Alcaftadine also exhibits modulatory action on immune cell recruitment and mast cell stabilizing effects^{[1][2]}.

REFERENCES

- [1]. Namdar, R. and C. Valdez, Alcaftadine: a topical antihistamine for use in allergic conjunctivitis. *Drugs Today (Barc)*, 2011. 47(12): p. 883-90.
- [2]. Mahvan, T.D., W.A. Buckley, and J.R. Hornecker, Alcaftadine for the prevention of itching associated with allergic conjunctivitis. *Ann Pharmacother*, 2012. 46(7-8): p. 1025-32.

Caution: Product has not been fully validated for medical applications. For research use only.

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