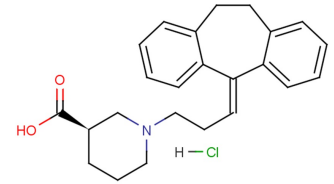


Data Sheet (Cat.No.T12703)

ReN-1869 hydrochloride

Chemical Properties

CAS No.:	170149-76-5
Formula:	C ₂₄ H ₂₈ ClNO ₂
Molecular Weight:	397.94
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	ReN 1869 hydrochloride is a novel, selective antagonist of histamine H1 receptor.
Targets(IC ₅₀)	histamine H1 receptor(ki): ki:0.19±0.04 μM
In vitro	ReN 1869 is a highly selective tricyclic antihistamine that shows functional histamine H1 receptor antagonism. ReN 1869 is profiled for activity at 10 μM at various receptors, transporters, enzymes and ion channels. ReN 1869 only demonstrates affinity to the histamine H1 receptor (guinea pig brain, [3H]pyrilamine) with a Ki of 0.19±0.04 μM and the non-selective σ site [guinea pig brain, [3H]1,3-di-tolylguanidine (DTG)] with a Ki of 0.45 μM. ReN 1869 dose-dependently reduces the responses with IC ₅₀ of 1.70±0.002 μM.
In vivo	ReN 1869 is a novel, selective histamine H(1) receptor antagonist. It is orally available, well tolerated, easily enters the central nervous system (CNS) but no adverse effects are seen in mice at 300 mg/kg. ReN 1869 at 0.01-10 mg/kg is antinociceptive in tests of chemical nociception in rodents (formalin, capsaicin, phenyl quinone writhing) but not in thermal tests (hot plate and tail flick). ReN 1869 amplifies the analgesic action of morphine but does not show tolerance after chronic dosing. Moreover, the compound is effective against inflammation of neurogenic origin (antidromic nerve stimulation, histamine-evoked edema) but not in carrageenan-induced inflammation. We suggest that ReN 1869, via H(1) blockade, counteracts the effect of histamine liberated from activated mast cells and inhibits pain transmission in the dorsal spinal cord. ReN 1869 represents a new class of antihistamines with pain-relieving properties that probably is mediated centrally through histamine H(1) receptors but alternative mechanisms of action cannot be excluded.

Solubility Information

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

	1mg	5mg	10mg
1 mM	2.513 mL	12.565 mL	25.129 mL
5 mM	0.503 mL	2.513 mL	5.026 mL
10 mM	0.251 mL	1.256 mL	2.513 mL
50 mM	0.05 mL	0.251 mL	0.503 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 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Olsen UB, et al. ReN 1869, a novel tricyclic antihistamine, is active against neurogenic pain and inflammation. Eur J Pharmacol. 2002 Jan 18;435(1):43-57.

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