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Tripelennamine (hydrochloride)

Catalog No: tcsc1395

Available Sizes

Size: 100mg

Size: 200mg

Size: 500mg

Size: 1g

Size: 5g

Specifications

CAS No:
154-69-8

Formula:
$C_{16}H_{22}ClN_3$

Pathway:
Immunology/Inflammation;GPCR/G Protein

Target:
Histamine Receptor;Histamine Receptor

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 33 mg/mL (113.08 mM)

Observed Molecular Weight:
291.82

Product Description

Tripelennamine Hcl, a H1-receptor antagonist, is a psychoactive drug and member of the pyridine andethylenediamine classes that is used as an antipruritic and first-generation antihistamine.
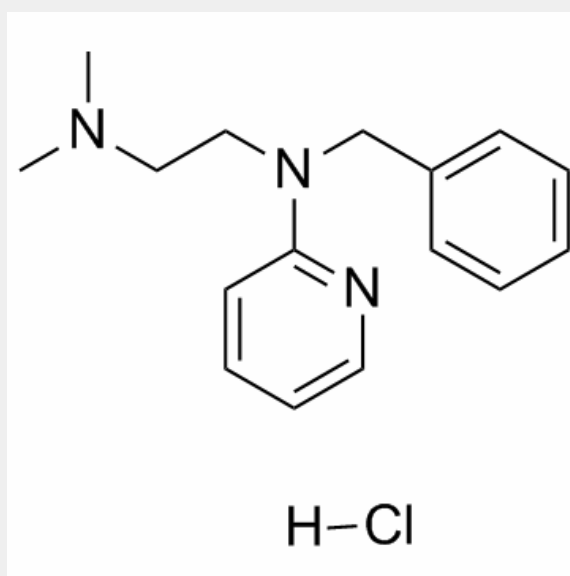
IC50 Value:

Target: Histamine H1 receptor

Tripelennamine can be used in the treatment of asthma, hay fever, rhinitus and urticaria.

in vitro: Arterial and mixed venous blood-gas and pH measurements were made at rest before and after saline or drug administration and during incremental exercise leading to maximal exertion at 14 m/s on 3.5% uphill grade for 120 s. Galloping at this workload elicited maximal heart rate and induced exercise-induced pulmonary hemorrhage in all horses in both treatments, thereby indicating that capillary stress failure-related pulmonary injury had occurred [1].

in vivo: The data obtained (median and range in brackets) in camels and horses, respectively, were as follows: the terminal elimination half-lives were 2.39 (1.91-6.54) and 2.08 (1.31-5.65) h, total body clearances were 0.97 (0.82-1.42) and 0.84 (0.64-1.17)L/h/kg. The volumes of distribution at steady state were 2.87 (1.59-6.67) and 1.69 (1.18-3.50) L/kg, the volumes of the central compartment of the two compartment pharmacokinetic model were 1.75 (0.68-2.27) and 1.06 (0.91-2.20) L/kg [2]. After intramuscular administration of 50 or 100 mg tripelennamine, mean plasma concentrations at 30 minutes were 105 and 194 ng/ml, respectively, and mean plasma t1/2 values were 2.9 and 4.4 hours, respectively [3].

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!