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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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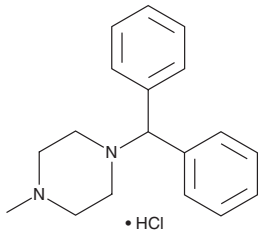
PRODUCT INFORMATION

Cyclizine (hydrochloride)

Item No. 31190

CAS Registry No.: 303-25-3
Formal Name: 1-(diphenylmethyl)-4-methyl-piperazine, monohydrochloride
MF: $C_{18}H_{22}N_2 \bullet HCl$
FW: 302.8
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥3 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Cyclizine (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the cyclizine (hydrochloride) in the solvent of choice, which should be purged with an inert gas. Cyclizine (hydrochloride) is soluble in the organic solvent methanol at a concentration of approximately 1 mg/ml.

Description

Cyclizine is a histamine H_1 receptor antagonist.[1-3] It binds selectively to histamine H_1 receptors (K_d = 5 nM) over H_2 and H_3 receptors (K_ds = 1,600 and >580 nM, respectively).[3] Cyclizine inhibits anti-IgE-induced histamine release from isolated human lung fragments with an IC_{50} value of 5.42 µM but induces histamine release with a 50% release concentration (RC_{50}) of 10.81 µM.[4] It reduces LPS-induced nitrite accumulation and protein levels of induced nitric oxide synthase (iNOS) in RAW 264.7 cells when used at a concentration of 100 nM.[2] Cyclizine (10 and 20 mg/kg) reduces immobility in the forced swim test in rats.[5]

References

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3. Hill, S.J. Distribution, properties, and functional characteristics of three classes of histamine receptor. *Pharmacol. Rev*. **42(1)**, 45-83 (1990).
4. Church, M.K. and Gradidge, C.F. Inhibition of histamine release from human lung *in vitro* by antihistamines and related drugs. *Br. J. Pharmacol*. **69(4)**, 663-667 (2019).
5. Khanwelkar, C.C., Gokhale, D.V., Santakke, A.V., *et al*. Effects of H_1–receptor antagonists in antidepressant tests in rats. *Al Ameen J. Med. Sci*. **1(2)**, 84-92 (2008).

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