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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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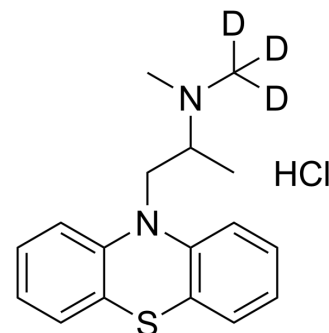
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Promethazine-d₃(hydrochloride)

Cat. No.:	HY-B0781S1
Molecular Formula:	C ₁₇ H ₁₈ D ₃ ClN ₂ S
Molecular Weight:	323.9
Target:	Isotope-Labeled Compounds; mAChR; Adrenergic Receptor; Histamine Receptor
Pathway:	Others; GPCR/G Protein; Neuronal Signaling; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Promethazine-d₃ (hydrochloride) is deuterium labeled Promethazine (hydrochloride). Promethazine hydrochloride is an orally active phenothiazine derivative with antihistaminic (H₁), sedative, antiemetic, anticholinergic, and antimotion sickness properties. Promethazine hydrochloride is a potent H₁ receptor antagonist and a mAChR antagonist. It also has a certain affinity for 5-HT_{2A} and 5-HT_{2C} receptors^{[1][2]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Fiorella D, et al. The role of the 5-HT_{2A} and 5-HT_{2C} receptors in the stimulus effects of hallucinogenic drugs. I: Antagonist correlation analysis. *Psychopharmacology (Berl)*. 1995 Oct;121(3):347-56.
- [3]. Kasai T, et al. Promethazine Hydrochloride Inhibits Ectopic Fat Cell Formation in Skeletal Muscle. *Am J Pathol*. 2017 Dec;187(12):2627-2634.
- [4]. McDonough JA, et al. Microcapsule-gel formulation of promethazine HCl for controlled nasal delivery: a motion sickness medication. *J Microencapsul*. 2007 Mar;24(2):109-16.
- [5]. Wink CS, et al. Effects of promethazine HCl on osteoporotic femora of adult castrated male rats. *Acta Anat (Basel)*.

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

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