



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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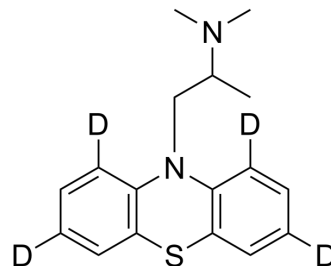
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## Promethazine-d<sub>4</sub>

|                    |   |
|--------------------|---|
| Cat. No.:          | HY-B1296S1  |
| CAS No.:           | 1173147-64-2  |
| Molecular Formula: | C <sub>17</sub> H <sub>16</sub> D <sub>4</sub> N <sub>2</sub> S                           |
| Molecular Weight:  | 288.44  |
| Target:            | Isotope-Labeled Compounds; Adrenergic Receptor; mAChR; 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-d<sub>4</sub> is a deuterated-labeled promethazine (HY-B0781). Promethazine is an orally active H<sub>1</sub> receptor and mAChR antagonist with antihistamine (H<sub>1</sub>), sedative, antiemetic, anticholinergic, and anti-motion sickness properties<sup>[1][2][3][4][5][6][7]</sup>.

### REFERENCES

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- [2]. Burt DR, et al. Antischizophrenic drugs: chronic treatment elevates dopamine receptor binding in brain. *Science.* 1977 Apr 15;196(4287):326-8.
- [3]. Strenkoski-Nix LC, et al. Pharmacokinetics of promethazine hydrochloride after administration of rectal suppositories and oral syrup to healthy subjects. *Am J Health Syst Pharm.* 2000 Aug 15;57(16):1499-505.
- [4]. Fiorella D, et al. The role of the 5-HT<sub>2A</sub> and 5-HT<sub>2C</sub> receptors in the stimulus effects of hallucinogenic drugs. I: Antagonist correlation analysis. *Psychopharmacology (Berl).* 1995 Oct;121(3):347-56.
- [5]. Seeman P, et al. Dopamine D<sub>2</sub> receptor binding sites for agonists. A tetrahedral model. *Mol Pharmacol.* 1985 Nov;28(5):391-9.
- [6]. Xinyue Tan, et al. Promethazine inhibits proliferation and promotes apoptosis in colorectal cancer cells by suppressing the PI3K/AKT pathway. *Biomed Pharmacother.* 2021 Nov;143:112174.
- [7]. Niloofar Amidi, et al. A Behavioral Study of Promethazine Interaction with Analgesic Effect of Diclofenac: Pain Combination Therapy. *J Pharmacopuncture.* 2020 Mar 31;23(1):18-24.

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

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