



# 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

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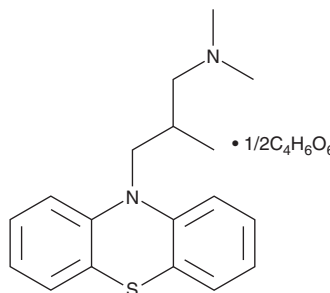
# PRODUCT INFORMATION



## Trimeprazine (tartrate)

Item No. 33891

**CAS Registry No.:** 4330-99-8  
**Formal Name:** N,N,β-trimethyl-10H-phenothiazine-10-propanamine, 2R,3R-dihydroxybutanedioate  
**Synonyms:** Alimemazine, NSC 17475  
**MF:** C<sub>18</sub>H<sub>22</sub>N<sub>2</sub>S • 1/2C<sub>4</sub>H<sub>6</sub>O<sub>6</sub>  
**FW:** 373.5  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 252 nm  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥2 years



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

### Laboratory Procedures

Trimeprazine (tartrate) is supplied as a solid. A stock solution may be made by dissolving the trimeprazine (tartrate) in the solvent of choice, which should be purged with an inert gas. Trimeprazine (tartrate) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of trimeprazine (tartrate) in ethanol is approximately 5 mg/ml and approximately 10 mg/ml in DMSO and DMF.

### Description

Trimeprazine is a histamine H<sub>1</sub> receptor antagonist (K<sub>i</sub> = 0.72 nM in a radioligand binding assay).<sup>1</sup> It is selective for the histamine H<sub>1</sub> receptor over muscarinic acetylcholine receptors (mAChRs; K<sub>i</sub> = 38 nM in a radioligand binding assay). Trimeprazine inhibits anti-IgE-induced histamine release from isolated human lung fragments (IC<sub>50</sub> = 19 nM) but induces histamine release with a 50% release concentration (RC<sub>50</sub>) of 1.03 μM.<sup>2</sup> It reduces severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) replication in SARS-CoV-2-infected Vero E6 cells (EC<sub>50</sub> = 1.76 μM) with a 50% cytotoxic concentration (CC<sub>50</sub>) value of 19.73 μM.<sup>3</sup> Formulations containing trimeprazine have been used in the treatment of allergic pruritis and motion sickness.

### References

1. Kubo, N., Shirakawa, S., Kuno, T., *et al.* Antimuscarinic effects of antihistamines: Quantitative evaluation by receptor-binding assay. *Jpn. J. Pharmacol.* **43(3)**, 277-282 (1987).
2. 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).
3. Yang, L., Pei, R.-J., Li, H., *et al.* Identification of SARS-CoV-2 entry inhibitors among already approved drugs. *Acta Pharmacol. Sin.* **42(8)**, 1347-1353 (2020).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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