



**SZABO
SCANDIC**

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

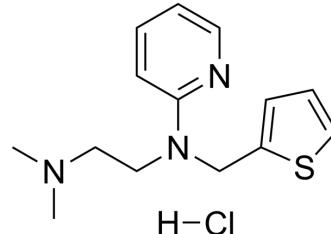
www.szabo-scandic.com

linkedin.com/company/szaboscandic



Methapyrilene hydrochloride

| | |
|--------------------|--|
| Cat. No.: | HY-B1483 |
| CAS No.: | 135-23-9 |
| Molecular Formula: | C ₁₄ H ₂₀ ClN ₃ S |
| Molecular Weight: | 297.85 |
| Target: | Histamine Receptor |
| Pathway: | GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling |
| Storage: | -20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (33.57 mM; Need ultrasonic and warming)

| Preparing Stock Solutions | Concentration | Mass | | |
|---------------------------|---------------|-----------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| | 1 mM | 3.3574 mL | 16.7870 mL | 33.5739 mL |
| | 5 mM | 0.6715 mL | 3.3574 mL | 6.7148 mL |
| | 10 mM | 0.3357 mL | 1.6787 mL | 3.3574 mL |

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

| | |
|---------------------------|---|
| Description | Methapyrilene (Thenylpyramine) hydrochloride is an orally active H ₁ -receptor antihistamine and an anticholinergic agent of the pyridine chemical class. Methapyrilene hydrochloride has hepatotoxicity and can be used as a hepatotoxin that cause periportal hepatic necrosis <i>in vivo</i> ^[2] |
| IC ₅₀ & Target | H ₁ Receptor |
| In Vitro | Methapyrilene hydrochloride (650 μM) results in a down-regulation of TF and up-regulation of FTL, while the level of HMOX1 is not changed. Additionally, the levels of CD44 and SOX9 proteins and the expression of PROM1 (CD133), hepatic stem cell-associated markers are increased ^[1] . Methapyrilene hydrochloride (650 μM) decreases CYP2E1, CYP3A4, NR1I3, ALB, mRNA expression and increases CD133 expression ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |
| In Vivo | Methapyrilene hydrochloride (oral gavage; 40 or 80 mg/kg; 5 days per week; 6 weeks) results in changes in the expression of classic hepatotoxicity-related marker genes and iron homeostasis-related genes, especially a prominent, dose-dependent down-regulation of the transferrin (Tf) gene and an up-regulation of the ferritin, light chain (FTL) gene in rats ^[1] . Methapyrilene hydrochloride (oral gavage; 150 mg/kg; 3 days) causes periportal liver necrosis at high dosage. Methapyrilene |

is sufficient to induce liver necrosis, or a subtoxic dose of 50 mg/kg/day^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Iryna Kindrat, et al. Effect of methapyrilene hydrochloride on hepatic intracellular iron metabolism in vivo and in vitro. *Toxicol Lett.* 2017 Nov 5;281:65-73.
 - [2]. Andrew Craig, et al. Systems toxicology: integrated genomic, proteomic and metabonomic analysis of methapyrilene induced hepatotoxicity in the rat. *J Proteome Res.* 2006 Jul;5(7):1586-601.
 - [3]. Shawkat-Muhialdin Jangi, et al. H1 histamine receptor antagonists induce genotoxic and caspase-2-dependent apoptosis in human melanoma cells. *Carcinogenesis.* 2006 Sep;27(9):1787-96.
-

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA