



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](https://www.linkedin.com/company/szaboscandic) 

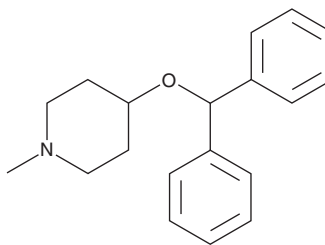
PRODUCT INFORMATION



Diphenylpyraline

Item No. 33237

CAS Registry No.: 147-20-6
Formal Name: 4-(diphenylmethoxy)-1-methyl-piperidine
Synonym: DPP
MF: C₁₉H₂₃NO
FW: 281.4
Purity: ≥95%
Supplied as: A crystalline 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

Diphenylpyraline is supplied as a crystalline solid. A stock solution may be made by dissolving the diphenylpyraline in the solvent of choice, which should be purged with an inert gas. Diphenylpyraline is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of diphenylpyraline in these solvents is approximately 30 mg/ml.

Diphenylpyraline is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, diphenylpyraline should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Diphenylpyraline has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Diphenylpyraline is a first generation histamine H₁ receptor antagonist (K_i = 20 nM in a radioligand binding assay using bovine cerebral cortex membranes).^{1,2} It also inhibits muscarinic acetylcholine receptors (K_i = 0.84 nM).² Diphenylpyraline (1 and 3 μM) inhibits contractions induced by prostaglandin E₁ (PGE₁; Item No. 13010) in isolated guinea pig ileum.³ It inhibits ovalbumin-induced bronchoconstriction in ovalbumin-sensitized guinea pigs when administered intravenously at a dose of 20 μmol/kg.⁴ Diphenylpyraline (14 mg/kg) also reduces dopamine uptake in rat nucleus accumbens.¹ Formulations containing diphenylpyraline have been used in the treatment of allergic rhinitis.

References

1. Oleson, E.B., Ferris, M.J., España, R.A., *et al.* Effects of the histamine H₁ receptor antagonist and benztraprine analog diphenylpyraline on dopamine uptake, locomotion and reward. *Eur. J. Pharmacol.* **683(1-3)**, 161-165 (2012).
2. 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).
3. Nakabou, Y., Kubota, M., Takada, K., *et al.* A possible approach to the suppression of side effects induced by PGE₁. *Prostaglandins Leukot. Essent. Fatty Acids* **52(1)**, 17-20 (1995).
4. Dulabh, R. and Vickers, M.R. The effects of H₂-receptor antagonists on anaphylaxis in the guinea-pig. *Agents Actions* **8(6)**, 559-565 (1978).

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.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 03/15/2021

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM