



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

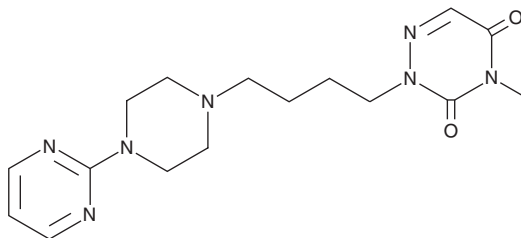


Eptapirone

Item No. 23449

CAS Registry No.: 179756-58-2
Formal Name: 4-methyl-2-[4-[4-(2-pyrimidinyl)-1-piperazinyl]butyl]-1,2,4-triazine-3,5(2H,4H)-dione

Synonym: F 11440
MF: C₁₆H₂₃N₇O₂
FW: 345.4
Purity: ≥98%
UV/Vis.: λ_{max}: 204, 243 nm
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

Eptapirone is supplied as a crystalline solid. A stock solution may be made by dissolving the eptapirone in the solvent of choice. Eptapirone is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of eptapirone in these solvents is approximately 20 and 10 mg/ml, respectively. Eptapirone is also slightly soluble in ethanol.

Eptapirone is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, eptapirone should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Eptapirone has a solubility of approximately 0.025 mg/ml in a 1:40 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Eptapirone is a potent agonist of the serotonin (5-HT) receptor subtype 5-HT_{1A} (K_i = 4.8 nM in a radioligand binding assay).¹ It is selective for 5-HT_{1A} over other 5-HT receptor subtypes, dopamine D₂ receptors, α₁-adrenergic receptors, and histamine H₁ receptors (K_is = <10,000, 1,770, 691.8, and <10,000 nM, respectively). Eptapirone inhibits cAMP stimulation induced by forskolin (Item No. 11018) in HA7 cells transfected with human 5-HT_{1A} receptors (EC₅₀ = 158 nM). *In vivo*, eptapirone increases extracellular 5-HT (Item No. 14332) in the ventral hippocampus of rats (ED₅₀ = 0.049 mg/kg) and serum corticosterone (Item No. 16063) levels when administered p.o. or i.p. (ED₅₀s = 0.16 and 0.057 mg/kg, respectively). It decreases immobility in rats in a forced swim test and increases punished responding in a pigeon conflict procedure, demonstrating antidepressant-like and anxiolytic activity. Eptapirone (2.5 mg/kg, p.o.) also attenuates hypertension and tachycardia induced by sibutramine (Item No. 14476) in rats with no effect on sibutramine-induced hypophagia.²

References

1. Koek, W., Patoiseau, J.-F., Assie, M.-B., et al. F 11440, a potent, selective, high efficacy 5-HT_{1A} receptor agonist with marked anxiolytic and antidepressant potential. *J. Pharmacol. Exp. Ther.* **287**(1), 266-283 (1998).
2. Thomas, G.H., Babbs, A.J., Chatfield, R.E., et al. 5-HT_{1A} activation counteracts cardiovascular but not hypophagic effects of sibutramine in rats. *Obesity (Silver Spring)* **17**(3), 467-473 (2009).

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, 10/26/2017

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