



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) 

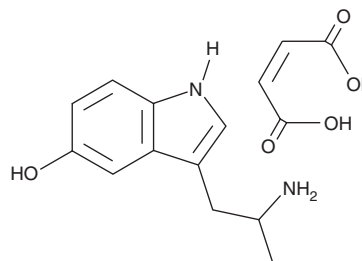
PRODUCT INFORMATION



α -methyl Serotonin (maleate)

Item No. 28542

CAS Registry No.: 97469-12-0
Formal Name: 3-(2-aminopropyl)-1H-indol-5-ol, (2Z)-2-butenedioate
Synonyms: α -Me-5-HT, α -Methyl-5-HT, α -Methyl-5-hydroxytryptamine, α -Methylserotonin
MF: C₁₁H₁₄N₂O • C₄H₄O₄
FW: 306.3
Purity: \geq 98%
UV/Vis.: λ_{\max} : 276, 302 nm
Supplied as: A solid
Storage: -20°C
Stability: \geq 2 years



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

Laboratory Procedures

α -methyl Serotonin (maleate) is supplied as a solid. A stock solution may be made by dissolving the α -methyl serotonin (maleate) in the solvent of choice, which should be purged with an inert gas. α -methyl Serotonin (maleate) is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of α -methyl serotonin (maleate) in these solvents is approximately 25 and 16 mg/ml, respectively. α -methyl Serotonin (maleate) is also slightly soluble in ethanol.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of α -methyl serotonin (maleate) can be prepared by directly dissolving the solid in aqueous buffers. The solubility of α -methyl serotonin (maleate) in PBS, pH 7.2, is approximately 2 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

α -methyl Serotonin is an agonist of serotonin (5-HT) receptors.^{1,2} It binds selectively to 5-HT_{1A}, 5-HT_{1B}, 5-HT_{1C}, and 5-HT_{1D} receptors over 5-HT_{1E} receptors (K_i s = 42, 85, 150, 150, and $>10,000$ nM, respectively).¹ It is also selective for 5-HT_{2B} and 5-HT_{2C} receptors over 5-HT_{2A} receptors (EC_{50} s = 2.98, 50.1, and 794 nM, respectively).² α -methyl Serotonin (30 μ M) potentiates motor neuron depolarizations induced by NMDA (Item No. 14581) in the presence of the NMDA receptor antagonist memantine (Item No. 14184) in *R. pipiens* (frog) spinal cord *ex vivo*.³ It also increases dopamine release from rat striatum *in vivo* in a dose-dependent manner.⁴ α -methyl Serotonin (64 μ g/kg) increases systolic blood pressure and transiently increases heart rate in conscious dogs.⁵

References

1. Ismaiel, A.M., Titeler, M., Miller, K.J., *et al.* *J. Med. Chem.* **33**(2), 755-758 (1990).
2. Baxter, G., Kennett, G., Blaney, F., *et al.* *Trends Pharmacol. Sci.* **16**(3), 105-110 (1995).
3. Holohean, A.M. and Hackman, J.C. *Br. J. Pharmacol.* **143**(3), 351-360 (2004).
4. Santiago, M., Matarredona, E.R., Machado, A., *et al.* *J. Neurosci. Res.* **52**(5), 591-598 (1998).
5. Wilson, H., Coffman, W.J., and Cohen, M.L. *J. Pharmacol. Exp. Ther.* **252**(2), 683-688 (1990).

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, 09/30/2019

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