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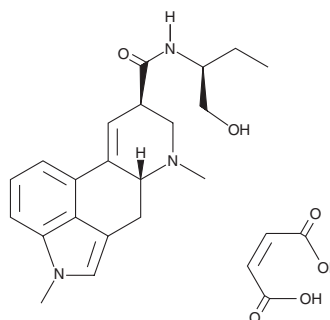
PRODUCT INFORMATION



Methysergide (maleate)

Item No. 27658

CAS Registry No.: 129-49-7
Formal Name: 9,10-didehydro-N-[(1S)-1-(hydroxymethyl)propyl]-1,6-dimethyl-ergoline-8 β -carboxamide, 2Z-butenedioate
Synonyms: Desernil, NSC 186061
MF: C₂₁H₂₇N₃O₂ • C₄H₄O₄
FW: 469.5
Purity: ≥95%
UV/Vis.: λ_{max}: 213, 321 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

Methysergide (maleate) is supplied as a crystalline solid. A stock solution may be made by dissolving the methysergide (maleate) in the solvent of choice, which should be purged with an inert gas. Methysergide (maleate) is slightly soluble in DMSO and methanol.

Description

Methysergide is an agonist of the serotonin (5-HT) receptor subtype 5-HT₁ and an antagonist of 5-HT₂ receptors.^{1,2} It binds to recombinant human 5-HT_{1A} (K_D = 23.44 nM), 5-HT_{1E} (K_i = 229.09 nM), 5-HT_{1F} (K_i = 33.88 nM), and rodent 5-HT_{1B} receptors (K_D = 1,513.56 nM).² It also binds to recombinant human 5-HT_{2A} (K_i = 2.69 nM) and 5-HT_{2C} receptors (K_D = 1.26 nM) and is an insurmountable antagonist at 5-HT_{2B} receptors. It inhibits vasoconstriction induced by 5-HT (Item No. 14332) in isolated postmortem human basilar arterial spiral strips (pA₂ = 8.07).³ Methysergide decreases external carotid blood flow in a dose-dependent manner in vagosympathectomized dogs, an effect that is inhibited by the 5-HT_{1B/1D} receptor antagonist GR127935 (Item No. 29651).⁴ It has antinociceptive activity in mouse models of pain induced by intrathecal injection of substance P (Item No. 24035), glutamate, NMDA (Item No. 14581), AMPA (Item No. 14571), or kainic acid.⁵ Methysergide reduces zymosan-induced paw edema in rats when administered at a dose of 10 mg/kg.⁶ Formulations containing methysergide were previously used in the prevention and treatment of vascular headaches.

References

1. Hoyer, D., Clarke, D.E., Fozard, J.R., et al. *Pharmacol. Rev.* **46**(2), 157-203 (1994).
2. Ramirez Rosas, M.B., Labrujere, S., Villalón, C.M., et al. *Expert Opin. Pharmacother.* **14**(12), 1599-1610 (2013).
3. Müller-Schweinitzer, E. *Gen. Pharmacol.* **14**(1), 95-102 (1983).
4. Villalón, C.M., De Vries, P., Rabelo, G., et al. *Br. J. Pharmacol.* **126**(3), 585-594 (1999).
5. Chung, K.M., Choi, S.S., Han, K.J., et al. *Pharmacology* **69**(2), 93-101 (2003).
6. Tarayre, J.P., Delhon, A., Aliaga, M., et al. *Pharmacol. Res.* **21**(4), 375-384 (1989).

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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