

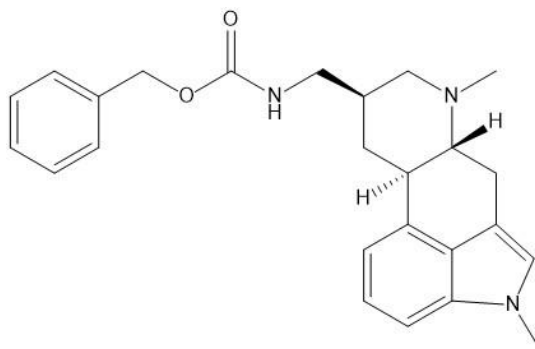
**Catalog # 10-3058**

**Metergoline**

CAS# 17692-51-2

[[8β)-1,6-Dimethylergolin-8-yl)methyl]carbamic acid phenylmethyl ester

Lot # X107451



Metergoline is an ergot alkaloid derivative acting as antagonist at serotonin 5HT<sub>1</sub> and 5HT<sub>2</sub> receptors<sup>1,2</sup> and 5HT<sub>7</sub> receptors<sup>3</sup>. A safe and effective agent for management of hyperprolactinemic amenorrhea and anovulation.<sup>4</sup> Displays a long lasting antidepressant effect in seasonal affective disorder.<sup>5</sup>

- 1) Aulakh *et al.* (1992), *Effects of various serotonin receptor subtype-selective antagonists alone and on m-chlorophenylpiperazine-induced neuroendocrine changes in rats*; J. Pharmacol. Exp. Ther., **263** 588
- 2) Bagdy *et al.* (1992), *Pharmacological characterization of serotonin receptor subtypes involved in vasopressin and plasma renin activity responses to serotonin agonists*; Eur. J. Pharmacol., **210** 285
- 3) Knight *et al.* (2009), *Pharmacological analysis of the novel, rapid, and potent inactivation of the human 5-Hydroxytryptamine<sub>7</sub> receptor by risperidone, 9-OH-Risperidone, and other inactivating antagonists*; Mol. Pharmacol., **75** 374
- 4) Falsetti *et al.* (1982), *Metergoline in the management of hyperprolactinemia amenorrhea and anovulation*; Gynecol. Obstet. Invest., **13** 108
- 5) Turner *et al.* (2002), *Double-blind, placebo-controlled study of single-dose metergoline in depressed patients with seasonal affective disorder*; J. Clin. Psychopharmacol., **22** 216

**PHYSICAL DATA**

Molecular Weight:	403.52
Molecular Formula:	C <sub>25</sub> H <sub>29</sub> N <sub>3</sub> O <sub>2</sub>
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 40 mg/ml) or Ethanol (4 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

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