

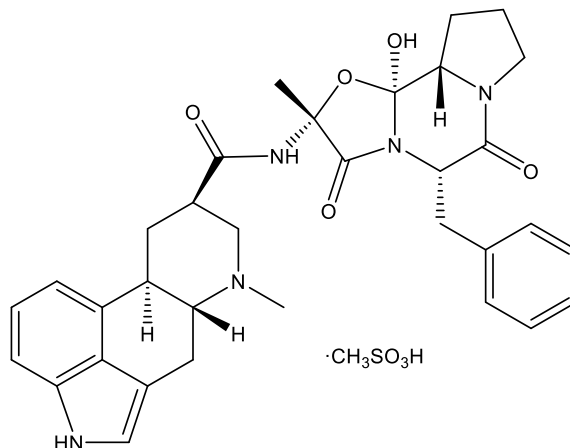
Catalog # 10-3400

Dihydroergotamine mesylate

CAS# 6190-39-2

(5'a,10a)-9,10-Dihydro-12'-hydroxy-2'-methyl-5'-(phenylmethyl)ergotaman-3',6',18-trione, mesylate

Lot # X106431



Dihydroergotamine is a full agonist at serotonin 5HT_{1B} and 5HT_{1D} receptors, IC₅₀= 2 and 2.2 nM respectively¹ and also at 5HT_{1A} and 5HT_{1F} receptors². One of the oldest agents for treatment of migraine.³ Also acts as a potent vasoconstrictor and alpha-adrenergic antagonist.⁴

References/Citations:

- 1) Lesage *et al.* (1998), *Agnostic properties of alniditan, sumatriptan and dihydroergotamine on human 5-HT_{1B} and 5-HT_{1D} receptors expressed in various mammalian cell lines*; Br. J. Pharmacol., **123** 1655
- 2) Silberstein (1997), *The pharmacology of ergotamine and dihydroergotamine*; Headache, **37 Suppl 1** S15
- 3) Silberstein and McCrory (2003), *Ergotamine and dihydroergotamine: history, pharmacology, and efficacy*; Headache, **43** 144
- 4) Lipton (1997), *Ergotamine tartrate and dihydroergotamine mesylate: safety profiles*; Headache, **37 Suppl.1** S33

PHYSICAL DATA

| | |
|------------------------|---|
| Molecular Weight: | 679.79 |
| Molecular Formula: | C ₃₃ H ₃₇ N ₅ O ₅ ·CH ₃ SO ₃ H |
| Purity: | >98% by HPLC |
| | NMR: (Conforms) |
| Solubility: | Soluble in DMSO (25 mg/ml) |
| Physical Description: | Off-white solid |
| Storage and Stability: | Store as supplied, desiccated at -20°C for up to two years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months. |

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