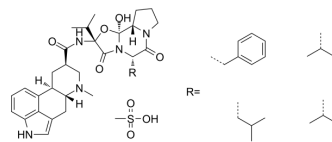


Dihydroergotoxine mesylate

Cat. No.:	HY-B0799
CAS No.:	8067-24-1
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 100 mg/mL H ₂ O : 2 mg/mL (Need ultrasonic) * "≥" means soluble, but saturation unknown.
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (Infinity mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (Infinity mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (Infinity mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Dihydroergotoxine mesylate is a complex of closely related alkaloid salts; Binds with high affinity to the GABAA receptor Cl ⁻ channel, producing an allosteric interaction with the benzodiazepine site. IC ₅₀ value: Target: Dihydroergotoxine mesylate also interacts with central dopaminergic, serotonergic and adrenergic (α ₁) receptors. Dihydroergotoxine mesylate displays antiproliferative activity in vitro (IC ₅₀ = 18 - 38 μM in prostate cancer cells) and exhibits cognition-enhancing, anticonvulsant and sedative activity in vivo.
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REFERENCES

- [1]. Tvrdeic A, et al. Dihydroergot compounds bind with high affinity to GABAA receptor-associated Cl⁻ ionophore. *Eur J Pharmacol.* 1991 Sep 4;202(1):109-11.
- [2]. Tvrdeic A, et al. Dihydroergotoxine modulation of the GABAA receptor-associated Cl⁻ ionophore in mouse brain. *Eur J Pharmacol.* 1992 Oct 6;221(1):139-43.
- [3]. Tvrdeic A, et al. Effect of ergot alkaloids on 3H-flunitrazepam binding to mouse brain GABAA receptors. *Coll Antropol.* 2003;27 Suppl 1:175-82.
- [4]. Abdul M, et al. Expression of gamma-aminobutyric acid receptor (subtype A) in prostate cancer. *Acta Oncol.* 2008;47(8):1546-50.

Caution: Product has not been fully validated for medical applications. For research use only.

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