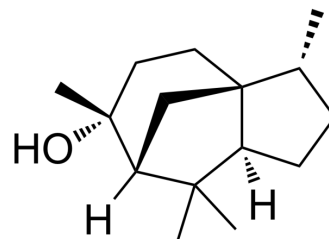


Cedrol

| | |
|--------------------|--|
| Cat. No.: | HY-N2071 |
| CAS No.: | 77-53-2 |
| Molecular Formula: | C ₁₅ H ₂₆ O |
| Molecular Weight: | 222.37 |
| Target: | Cytochrome P450; Fungal |
| Pathway: | Metabolic Enzyme/Protease; Anti-infection |
| Storage: | 4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



SOLVENT & SOLUBILITY

| | | | | | | | |
|---|---|--------------------------|------|-----------|-----------|------------|------------|
| In Vitro | DMSO : 110 mg/mL (494.67 mM; Need ultrasonic) | | | | | | |
| | H ₂ O : < 0.1 mg/mL (insoluble) | | | | | | |
| | Preparing Stock Solutions | Solvent Concentration | Mass | 1 mg | 5 mg | 10 mg | |
| | | | | 1 mM | 4.4970 mL | 22.4850 mL | 44.9701 mL |
| | | | | 5 mM | 0.8994 mL | 4.4970 mL | 8.9940 mL |
| 10 mM | | | | 0.4497 mL | 2.2485 mL | 4.4970 mL | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | | | |
| In Vivo | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.75 mg/mL (12.37 mM); Suspended solution; Need ultrasonic | | | | | | |
| | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.75 mg/mL (12.37 mM); Clear solution | | | | | | |
| | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.75 mg/mL (12.37 mM); Clear solution | | | | | | |

BIOLOGICAL ACTIVITY

| | | |
|---------------------------|---|------|
| Description | Cedrol is a bioactive sesquiterpene, a potent competitive inhibitor of cytochrome P-450 (CYP) enzymes. Cedrol inhibits CYP2B6-mediated bupropion hydroxylase and CYP3A4-mediated midazolam hydroxylation with K _i of 0.9 μM and 3.4 μM, respectively. Cedrol also has weak inhibitory effect on CYP2C8, CYP2C9, and CYP2C19 enzymes ^[1] . Cedrol is found in cedar essential oil and possesses anti-septic, anti-inflammatory, anti-spasmodic, tonic, astringent, diuretic, insecticidal, and anti-fungal activities ^[2] . | |
| IC ₅₀ & Target | CYP2 | CYP3 |

CUSTOMER VALIDATION

- Curr Top Nutraceutical Res. 2022 Jan 27.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Jeong HU, et al. Inhibitory effects of cedrol, β -cedrene, and thujopsene on cytochrome P450 enzyme activities in human liver microsomes. J Toxicol Environ Health A. 2014;77(22-24):1522-32.

[2]. Jin MH, et al. Cedrol Enhances Extracellular Matrix Production in Dermal Fibroblasts in a MAPK-Dependent Manner. Ann Dermatol. 2012 Feb;24(1):16-21

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

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