

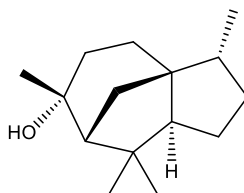
Catalog # 10-4405

(+)-Cedrol

CAS# 77-53-2

(1S,2R,5S,7R,8R)-2,6,6,8-Tetramethyltricyclo[5.3.1.0^{1,5}]undecan-8-ol

Lot # FBS2131



Cedrol is a sesquiterpene alcohol found in conifers mainly of the genera *Cupressus*, *Juniperus*, and *Cedrus*. It has been found to possess significant anticancer activity against glioblastoma *in vitro* and *in vivo* via cell growth inhibition, ROS generation, and DNA damage.¹ Cedrol also displayed synergistic effects with temozolomide against glioblastoma *in vitro* and *in vivo* via reduced expression of drug resistance proteins.^{1,2} Cedrol inhibited the growth of human renal adenocarcinoma and amelanotic melanoma cells³ and induced autophagy and apoptosis in A549 non-small cell lung carcinoma cells⁴.

- 1) Chang et al. (2020), *Cedrol suppresses glioblastoma progression by triggering DNA damage and blocking nuclear translocation of the androgen receptor*; Cancer Lett., **495** 180
- 2) Chang et al. (2020), *Cedrol, a Sesquiterpene Alcohol, Enhances the Anticancer Efficacy of Temozolomide in Attenuating Drug Resistance via Regulation of the DNA Damage Response and MGMT Expression*; J. Nat. Prod., **83** 3021
- 3) Loizzo et al. (2008), *Antiproliferative effects of essential oils and their major constituents in human renal adenocarcinoma and amelanotic melanoma cells*; Cell Prolif., **41** 1002
- 4) Zhang et al. (2016), *Cedrol induces autophagy and apoptotic cell death in A549 non-small cell lung carcinoma cells through the PI3K/Akt signaling pathway, the loss of mitochondrial transmembrane potential and the generation of ROS*; Int. J. Mol. Med., **38** 291

PHYSICAL DATA

Molecular Weight:	222.37
Molecular Formula:	C ₁₅ H ₂₆ O
Purity:	99% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (10 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.