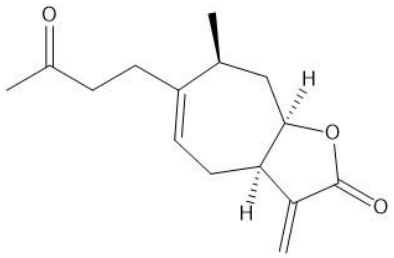
Catalog # 10-3538

Tomentosin

CAS# 33649-15-9

Sesquiterpenoid isolated from *Inula viscosa*

Lot # X106208



Extracts of *Inula* which contain tomentosin have been used for centuries in traditional medicine for the treatment of inflammation.[1] It suppresses the production of inflammatory mediators in RAW264.7 cells by inhibiting NFκB activation.[2] It induces telomere shortening and caspase-dependent apoptosis in cervical cancer cells[3] and induces apoptosis in human osteosarcoma MG-63 cells[4]. It causes G2/M arrest and apoptosis in human melanoma cell lines.[5]

1) Lu *et al*. (2012), *Inula japonica extract inhibits mast cell-mediated allergic reaction and mast cell activation*; Ethnopharmacol., **143** 151
2) Park *et al*. (2014), *Suppressive effect of tomentosin on the production of inflammatory mediators in RAW264.7 cells*; Biol. Pharm. Bull., **37** 1177
3) Merghoub *et al*. (2017), *Tomentosin Induces Telomere Shortening and Caspase-Dependent Apoptosis in Cervical Cancer Cells*; J. Cell Biochem., **118** 1689
4) Lee *et al.* (2019), *Tomentosin Displays Anti-Carcinogenic Effect in Human Osteosarcoma MG-63 Cells via the Induction of Intracellular Reactive Oxygen Species*; Int. J. Mol. Sci., **20(6)** 1508
5) Rozenblat *et al*. (2008), *Induction of G2/M arrest and apoptosis by sesquiterpene lactones in human melanoma cell lines*; Biochem. Pharmacol., **75** 369

PHYSICAL DATA

Molecular Weight:	248.32
Molecular Formula:	$C_{15}H_{20}O_3$
Purity:	97% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml)
Physical Description:	Yellow oil
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase.
	Solutions in DMSO may be stored at -20°C for up to 2 months.

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