

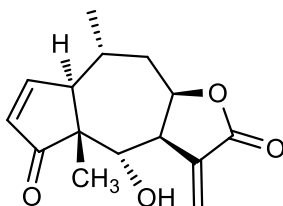
Catalog # 10-2783

Helenalin

6754-13-8

Natural sesquiterpenoid from Arnica species

Lot # X101124



A novel sesquiterpene lactone which inhibits NF κ B¹ and displays potent anti-inflammatory activity². It suppresses essential immune functions of activated CD4+ T cells by multiple mechanisms³. Also inhibits telomerase and this activity may be partially responsible for its anti-tumor effects⁴.

- 1) Lyss *et al.* (1998), *The anti-inflammatory sesquiterpene lactone helenalin inhibits the transcription factor NF-kappaB by directly targeting p65*; J. Biol. Chem., **273** 33508
- 2) Lyss *et al.* (1997), *Helenalin, an anti-inflammatory sesquiterpene lactone from Arnica, selectively inhibits transcription factor NF-kappaB*; Biol. Chem., **278** 951
- 3) Berges *et al.* (2009), *Helenalin suppresses essential immune functions of activated CD4+ T cells by multiple mechanisms*; Mol. Immunol., **46** 2892
- 4) Huang *et al.* (2005), *Potent inhibition of human telomerase by helenalin*; Cancer Lett., **227** 169

PHYSICAL DATA

Molecular Weight:	262.31
Molecular Formula:	C ₁₅ H ₁₈ O ₄
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 20 mg/ml), Ethanol (up to 10 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

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