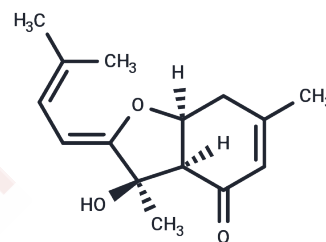


Bisabolangelone

Chemical Properties

CAS No. :	30557-81-4
Formula:	C ₁₅ H ₂₀ O ₃
Molecular Weight:	248.32
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Bisabolangelone has anti-tumor, anti-inflammatory, anti-microbial, and antioxidant activities, it inhibits dendritic cell functions by blocking MAPK and NF-κB signaling.
Targets(IC50)	MAPK,p38 MAPK
In vitro	Bisabolangelone (BISA), isolated from the roots of Angelica koreana, has many pharmacological activities, such as anti-tumor, anti-microbial, antioxidant, and anti-inflammatory activities. BISA attenuated the production of pro-inflammatory cytokines including interleukin (IL)-12, IL-1β, and tumor necrosis factor-alpha (TNF-α), migration to macrophage inflammatory protein-3 beta, and allo-T cell activating ability of DCs. In addition, BISA affected endocytosis of DCs. Molecular studies showed that BISA suppressed MAPK phosphorylation and nuclear translocation of NF-κB p50/p65. BISA inhibited DC functions by blocking MAPK and NF-κB signaling[2].

Solubility Information

Solubility	DMSO: 25 mg/mL (100.68 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (8.05 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0271 mL	20.1353 mL	40.2706 mL
5 mM	0.8054 mL	4.0271 mL	8.0541 mL
10 mM	0.4027 mL	2.0135 mL	4.0271 mL
50 mM	0.0805 mL	0.4027 mL	0.8054 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

HPLC-based activity profiling of *Angelica pubescens* roots for new positive GABAA receptor modulators in *Xenopus* oocytes. *Fitoterapia*. 2011 Apr;82(3):434-40.

Kim H S , Lee Y J , Lee H K , et al. Bisabolangelone inhibits dendritic cell functions by blocking MAPK and NF- κ B signaling[J]. *Food and chemical toxicology: an international journal published for the British Industrial Biological Research Association*, 2013, 59.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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