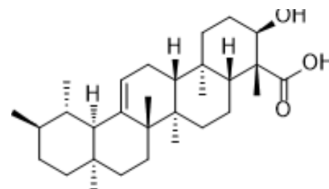


β-Boswellic acid

Cat. No.:	HY-N2513		
CAS No.:	631-69-6		
Molecular Formula:	C ₃₀ H ₄₈ O ₃		
Molecular Weight:	456.7		
Target:	Lipoxygenase; DNA/RNA Synthesis		
Pathway:	Metabolic Enzyme/Protease; Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (218.96 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.1896 mL	10.9481 mL	21.8962 mL
		5 mM		0.4379 mL	2.1896 mL	4.3792 mL
	10 mM		0.2190 mL	1.0948 mL	2.1896 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.47 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.47 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.47 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	β-Boswellic acid is isolated from the gum resin of <i>Boswellia serrata</i> . β-Boswellic acid is a nonreducing-type inhibitor of the 5-lipoxygenase (5-LO) product formation either interacting directly with the 5-LO or blocking its translocation ^[1] . β-Boswellic acid inhibits the synthesis of DNA, RNA and protein in human leukemia HL-60 cells ^[2] .
IC₅₀ & Target	5-LO

REFERENCES

[1]. Safayhi H, et al. Boswellic acids: novel, specific, nonredox inhibitors of 5-lipoxygenase. *J Pharmacol Exp Ther.* 1992 Jun;261(3):1143-6.

[2]. Shao Y, et al. Inhibitory activity of boswellic acids from *Boswellia serrata* against human leukemia HL-60 cells in culture. *Planta Med.* 1998 May;64(4):328-31

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

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