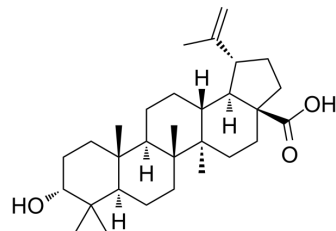


Epibetulinic acid

Cat. No.:	HY-N0223
CAS No.:	38736-77-5
Molecular Formula:	C ₃₀ H ₄₈ O ₃
Molecular Weight:	456.7
Target:	NO Synthase; Prostaglandin Receptor
Pathway:	Immunology/Inflammation; GPCR/G Protein
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (218.96 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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.

BIOLOGICAL ACTIVITY

Description

Epibetulinic acid exhibits potent inhibitory effects on NO and prostaglandin E2 (PGE2) production in mouse macrophages (RAW 264.7) stimulated with bacterial endotoxin with IC₅₀s of 0.7 and 0.6 μM, respectively. Anti-inflammatory activity^[1].

IC₅₀ & Target

NO 0.7 μM (IC ₅₀)	EP2 0.6 μM (IC ₅₀)
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REFERENCES

[1]. Reyes CP, et al. Activity of lupane triterpenoids from Maytenus species as inhibitors of nitric oxide and prostaglandin E2. Bioorg Med Chem. 2006 Mar 1;14(5):1573-9.

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

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