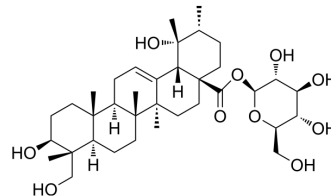


Pedunculoside

Cat. No.:	HY-N0458
CAS No.:	42719-32-4
Molecular Formula:	C ₃₆ H ₅₈ O ₁₀
Molecular Weight:	650.84
Target:	Fatty Acid Synthase (FASN)
Pathway:	Metabolic Enzyme/Protease
Storage:	4°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 (153.65 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.5365 mL	7.6824 mL	15.3648 mL
				5 mM	0.3073 mL	1.5365 mL	3.0730 mL
				10 mM	0.1536 mL	0.7682 mL	1.5365 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (3.84 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.84 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Pedunculoside exerts lipid-lowering effects partly through the regulation of?lipogenesis?and?fatty acid β-oxidation ^[1] .
In Vitro	Pedunculoside is a triterpene saponin extracted from <i>Ilex rotunda</i> Thunb.?Pedunculoside regulates?PPAR-γ,?CCAAT/Enhancer-binding Protein α(C/EBPα)and?SREBP-1?expression as well as inhibited?phosphorylation?of AMPK in MDI (methylisobutylxanthine,?dexamethasone, insulin) induced-3T3L1 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Liu C, et al. Pedunculoside, a novel triterpene saponin extracted from *Ilex rotunda*, ameliorates high-fat diet induced hyperlipidemia in rats. *Biomed Pharmacother.* 2018 May;101:608-616.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA