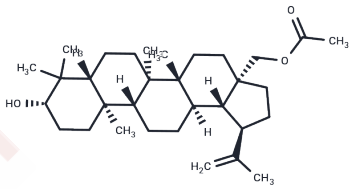
Data Sheet (Cat.No.T36318)

TargetMol

28-Acetylbetulin

Chemical Properties



CAS No. : 27686-35-7

Formula: C32H52O3

Molecular Weight: 484.765

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	28-Acetylbetulin is a lupane triterpenoid and derivative of the cholesterol biosynthesis inhibitor betulin that has been found inM. chiapensisand has anti-inflammatory and anticancer activities.1,2It inhibits LPS-induced nitric oxide (NO) and prostaglandin E2production by 55.9 and 69.5%, respectively, in RAW 264.7 cells (IC50s = 4.7 and 1.7 μM, respectively).128-Acetylbetulin induces cytotoxicity in a variety of cancer cells, including A549, HT-29, and MCF-7 cells (IC50s = 14.37, 10.96, and 11.38 μM, respectively).2
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: Slightly soluble DMF: 1 mg/mL (2.06 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0628 mL	10.3142 mL	20.6283 mL
5 mM	0.4126 mL	2.0628 mL	4.1257 mL
10 mM	0.2063 mL	1.0314 mL	2.0628 mL
50 mM	0.0413 mL	0.2063 mL	0.4126 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

Reyes, C.P., Nú?ez, M.J., Jiménez, I.A., et al.Activity of lupane triterpenoids from Maytenus species as inhibitors of nitric oxide and prostaglandin E2Bioorg. Med. Chem.14(5)1573-1579(2006)

Kommera, H., Kaluderovi?, G.N., Kalbitz, J., et al.Lupane triterpenoids--betulin and betulinic acid derivatives induce apoptosis in tumor cellsInvest. New Drugs29(2)266-272(2011)

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481