Data Sheet (Cat.No.T3819)

TargetMol

Ursolic acid acetate

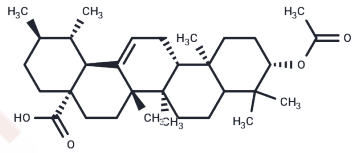
Chemical Properties

CAS No. : 7372-30-7

Formula: C32H50O4

Molecular Weight: 498.74

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	Ursolic acid acetate (Acetylursolic acid) has cytotoxic activity, antimalarial activity, antitumor and anticancer activities. Acetylursolic acid has NO production inhibitory activities. Acetylursolic acid has inhibition against both acetylcholinesterase (AChE) and butyrylcholinesterase (BChE) enzymes.
Targets(IC50)	HSP,Parasite,Cholinesterase (ChE)

Solubility Information

Solubility	DMSO: 12 mg/mL (24.06 mM),Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.01 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0051 mL	10.0253 mL	20.0505 mL
5 mM	0.401 mL	2.0051 mL	4.0101 mL
10 mM	0.2005 mL	1.0025 mL	2.0051 mL
50 mM	0.0401 mL	0.2005 mL	0.401 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

Tu, H., Huang, A., Wei, B., Gan, K., Hour, T., & Yang, S. et al. (2009). Ursolic acid derivatives induce cell cycle arrest and apoptosis in NTUB1 cells associated with reactive oxygen species. Bioorganic & Medicinal Chemistry, 17(20), 7265-7274. doi: 10.1016/j.bmc.2009.08.046

Leal, A., Wang, R., Salvador, J., & Jing, Y. (2012). Synthesis of novel ursolic acid heterocyclic derivatives with improved abilities of antiproliferation and induction of p53, p21waf1 and NOXA in pancreatic cancer cells. Bioorganic & Medicinal Chemistry, 20(19), 5774-5786. doi: 10.1016/j.bmc.2012.08.010

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