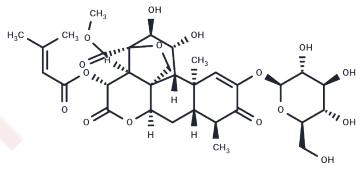
Data Sheet (Cat.No.TN3543)

TargetMol

Bruceoside A

Chemical Properties



CAS No. : 63306-30-9

Formula: C32H42O16

Molecular Weight: 682.67

Storage: Store at low temperature
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	Bruceoside A is a bitter wood glycoside that can be isolated from opuntia and has anticancer and tumor activity and can be used with the study of leukemia.
Targets(IC50)	Others
In vitro	Similar inhibitory effects on P-388 cell oxidative phosphorylation were found in vitro with brusatol, bruceoside A, and bruceantin[1].
In vivo	Bruceoside A can undergo transformation into the potent anticancer component brusatol in vivo, rather than being directly metabolized into its deglycosylated form, bruceosin[2].

Solubility Information

Solubility	DMSO: 100 mg/mL (146.48 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (5.86 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	1.4648 mL	7.3242 mL	14.6484 mL
5 mM	0.293 mL	1.4648 mL	2.9297 mL
10 mM	0.1465 mL	0.7324 mL	1.4648 mL
50 mM	0.0293 mL	0.1465 mL	0.293 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

Eigebaly SA, et al. Antitumor agents. XXXV: Effects of brusatol, bruceoside A, and bruceantin on P-388 lymphocytic leukemia cell respiration. J Pharm Sci. 1979 Jul;68(7):887-90.
Yuan Xu, et al. Pharmacokinetic study on bruceoside A revealed the potential role of quassinoid glycosides for the anticancer properties of Fructus Bruceae. J Pharm Biomed Anal. 2019 Jun 5;170:264-272.

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