

## Bryodulcosigenin

## Chemical Properties

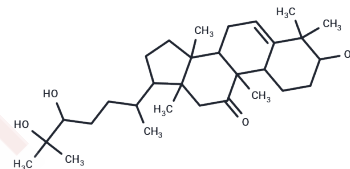
CAS No. : 4965-97-3

Formula: C<sub>30</sub>H<sub>50</sub>O<sub>4</sub>

Molecular Weight: 474.72

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	Bryodulcosigenin has anti-inflammatory effect, it shows potent inhibitory effects on EBV-EA induction.
Targets(IC50)	Immunology/Inflammation related
In vitro	The structures of 1-7 were determined on the basis of spectroscopic and chemical methods. Six compounds, 2, 3, 5, and 7-9, and 11 compounds, 1-9, Bryodulcosigenin (10), and bryosigenin (11), respectively, were evaluated for their inhibitory effects on 12-O-tetradecanoylphorbol-13-acetate (TPA)-induced inflammation (1 microg/ear) in mice and on Epstein-Barr virus early antigen (EBV-EA) activation induced by TPA.

## Solubility Information

Solubility	DMSO: 65 mg/mL (136.92 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1065 mL	10.5325 mL	21.065 mL
5 mM	0.4213 mL	2.1065 mL	4.213 mL
10 mM	0.2107 mL	1.0533 mL	2.1065 mL
50 mM	0.0421 mL	0.2107 mL	0.4213 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

Anti-inflammatory and anti-tumor-promoting effects of cucurbitane glycosides from the roots of Bryonia dioica. J Nat Prod. 2002 Feb;65(2):179-83.

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