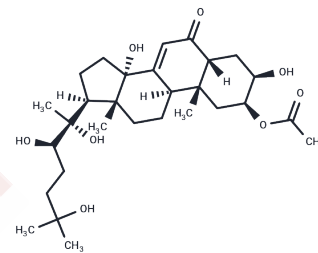


2-O-Acetyl-20-hydroxyecdysone

Chemical Properties

CAS No. :	19536-25-5
Formula:	C ₂₉ H ₄₆ O ₈
Molecular Weight:	522.67
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	2-O-Acetyl-20-hydroxyecdysone is an ecdysone present in insects and terrestrial plants. 2-O-Acetyl-20-hydroxyecdysone inhibits amyloid-β42-induced cytotoxicity and is able to reduce the formation of Aβ oligomers by promoting fibrillogenesis, which converts Aβ oligomers into less toxic fibers.
Targets(IC50)	Beta Amyloid

Solubility Information

Solubility	DMSO: 90 mg/mL (172.19 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: 3.3 mg/mL (6.31 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9133 mL	9.5663 mL	19.1325 mL
5 mM	0.3827 mL	1.9133 mL	3.8265 mL
10 mM	0.1913 mL	0.9566 mL	1.9133 mL
50 mM	0.0383 mL	0.1913 mL	0.3827 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

Yang SG, et al. Diverse ecdysterones show different effects on amyloid- β 42 aggregation but all uniformly inhibit amyloid- β 42-induced cytotoxicity. J Alzheimers Dis. 2010;22(1):107-117.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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