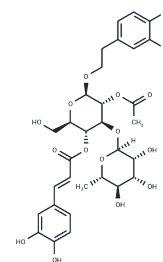


2'-acetylacteoside

Chemical Properties

CAS No. :	94492-24-7
Formula:	C ₃₁ H ₃₈ O ₁₆
Molecular Weight:	666.63
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'-Acetylacteoside has antioxidative activity. It can significantly attenuate glutamate-induced neurotoxicity at concentrations ranging from 0.1 to 10 µM. 2'-Acetylacteoside shows antiproliferative effects on aortic smooth muscle, indicates that it may have preventative effects on arteriosclerosis. 2'-Acetylacteoside (0.071 µM) demonstrates potent rat lens aldose reductase inhibitory activity.
Targets(IC50)	Antioxidant,Reductase

Solubility Information

Solubility	Ethanol: 100 mg/mL (150.01 mM),Sonication is recommended. DMSO: 100 mg/mL (150.01 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 (6 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	1.5001 mL	7.5004 mL	15.0008 mL
5 mM	0.300 mL	1.5001 mL	3.0002 mL
10 mM	0.150 mL	0.750 mL	1.5001 mL
50 mM	0.030 mL	0.150 mL	0.300 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

Xiong Q, et al. Hepatoprotective Activity of Phenylethanoids from *Cistanche deserticola*[J]. *Planta Medica*, 1998, 64 (02):120-125.

He Z, et al. Purification of Phenylethanoids from *Brandisia hancei* and the Antiproliferative Effects on Aortic Smooth Muscle[J]. *Planta Medica*, 2001, 67(06):520-522.

Koo K A, et al. In vitro neuroprotective activities of phenylethanoid glycosides from *Callicarpa dichotoma*. [J]. *Planta Medica*, 2005, 71(08):778-780.

Morikawa T, et al. Acylated phenylethanoid glycosides, echinacoside and acteoside from *Cistanche tubulosa*, improve glucose tolerance in mice[J]. *Journal of Natural Medicines*, 2014, 68(3):561.

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