

Deacetylasperulosidic Acid

Chemical Properties

CAS No. : 14259-55-3

Formula: C₁₆H₂₂O₁₁

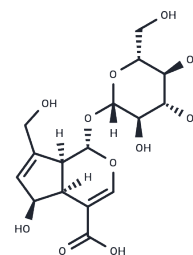
Molecular Weight: 390.34

Keep away from direct sunlight, Keep away from moisture

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	Deacetylasperulosidic Acid is a natural compound of Morinda citrifolia fruit. It has antioxidant activity by increasing superoxide dismutase activity. It also prevents 4-nitroquinoline 1-oxide (4NQO) induced DNA damage in vitro, suppresses IL-2 production along with the activation of natural killer cells.
Targets(IC50)	IL Receptor, Interleukin

Solubility Information

Solubility	DMSO: 10 mg/mL (25.62 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: 1 mg/mL (2.56 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	2.5619 mL	12.8093 mL	25.6187 mL
5 mM	0.5124 mL	2.5619 mL	5.1237 mL
10 mM	0.2562 mL	1.2809 mL	2.5619 mL
50 mM	0.0512 mL	0.2562 mL	0.5124 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

Ma DL, et al. In vivo antioxidant activity of deacetylasperulosidic Acid in noni. J Anal Methods Chem. 2013;2013: 804504.

Murata K, et al. Activation of cell-mediated immunity by Morinda citrifolia fruit extract and its constituents. Nat Prod Commun. 2014 Apr;9(4):445-50.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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