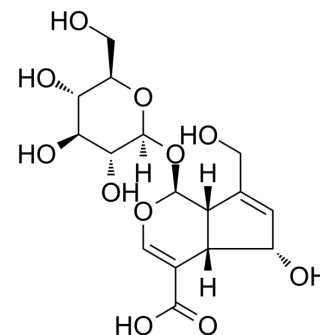


## Deacetylasperulosidic Acid

Cat. No.:	HY-N0594
CAS No.:	14259-55-3
Molecular Formula:	C <sub>16</sub> H <sub>22</sub> O <sub>11</sub>
Molecular Weight:	390.34
Target:	Interleukin Related
Pathway:	Immunology/Inflammation
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (256.19 mM; Need ultrasonic)  
H<sub>2</sub>O : 50 mg/mL (128.09 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (6.40 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (6.40 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (6.40 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Deacetylasperulosidic acid (DAA) is a major phytochemical constituent of *Morinda citrifolia* fruit. Deacetylasperulosidic acid has antioxidant activity by increasing superoxide dismutase activity. Deacetylasperulosidic acid has anticlastogenic activity, suppressing the induction of chromosome aberrations in hamster ovary cells and mice<sup>[1]</sup>. Deacetylasperulosidic acid prevents 4-nitroquinoline 1-oxide (4NQO) induced DNA damage in vitro, suppresses IL-2 production along with the activation of natural killer cells<sup>[2]</sup>.

#### IC<sub>50</sub> & Target

IL-2

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## REFERENCES

- [1]. Ma DL, et al. In vivo antioxidant activity of deacetylasperulosidic Acid in noni. J Anal Methods Chem. 2013;2013:804504.
- [2]. 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.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA