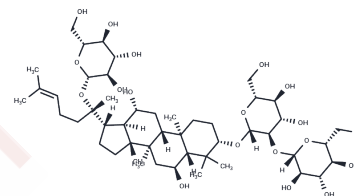


Vinaginsenoside R4

Chemical Properties

CAS No. :	156009-80-2
Formula:	C ₄₈ H ₈₂ O ₁₉
Molecular Weight:	963.15
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	Vinaginsenoside R4 was isolated from the leaves of hydroponically grown ginseng. It inhibits melanin biosynthesis and enhances pigmentation in zebrafish without any cytotoxic effects on melan-a cells. It may have potential as a new skin whitening compound.
Targets(IC50)	Others
In vitro	The chemical structures were determined based on spectroscopic methods, including fast atom bombardment mass spectroscopy (FAB-MS), 1D-nuclear magnetic resonance (NMR), 2D-NMR, and, infrared (IR) spectroscopy. The melanogenic inhibitory activity of compounds 1, 2 and 3 was 23.9%, 27.8% and 35.2%, respectively, at a concentration of 80 μM. Likewise, the three compounds showed inhibitory activity on body pigmentation on a zebrafish model, which is commonly used as a model for biomedical or cosmetic research.

Solubility Information

Solubility	DMSO: 60 mg/mL (62.3 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	1.0383 mL	5.1913 mL	10.3826 mL
5 mM	0.2077 mL	1.0383 mL	2.0765 mL
10 mM	0.1038 mL	0.5191 mL	1.0383 mL
50 mM	0.0208 mL	0.1038 mL	0.2077 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

The potential of minor ginsenosides isolated from the leaves of Panax ginseng as inhibitors of melanogenesis. Int J Mol Sci. 2015 Jan 13;16(1):1677-90.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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