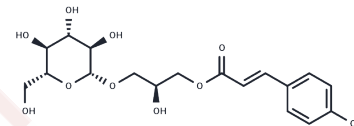


Regaloside A

Chemical Properties

CAS No. :	114420-66-5
Formula:	C ₁₈ H ₂₄ O ₁₀
Molecular Weight:	400.38
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	Regaloside A is a phenylpropane derived from lily of the valley that shows DPPH free radical scavenging activity at 160 ppm. Regaloside A has anti-inflammatory activity and antidepressant activity.
Targets(IC50)	Others, NF-κB, NO Synthase
In vitro	Regaloside A (50 µg/mL; 2 h) followed by LPS treatment (1 µg/mL; 15 min) in RAW 264.7 cells inhibits iNOS expression to 70.3% and reduces COX-2 expression to 131.6%, also lowering the p-p65/p-65 ratio to 40.7; additionally, Regaloside A (50 µg/mL; 2 h) in HASMCs exposed to TNF-α (10 ng/mL; 12 h) reduces VCAM-1 expression to 48.6%. [1]

Solubility Information

Solubility	DMSO: 45 mg/mL (112.39 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: 2 mg/mL (5 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	2.4976 mL	12.4881 mL	24.9763 mL
5 mM	0.4995 mL	2.4976 mL	4.9953 mL
10 mM	0.2498 mL	1.2488 mL	2.4976 mL
50 mM	0.050 mL	0.2498 mL	0.4995 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

Thi N N, et al. Phenylpropanoids from *Lilium Asiatic* hybrid flowers and their anti-inflammatory activities. *Applied Biological Chemistry*. 2017; 60: 527-533.

Qin Y, et al. Integrative analysis of metabolome and transcriptome provide new insights into the bitter components of *Lilium lancifolium* and *Lilium brownii*. *J Pharm Biomed Anal*. 2022;215:114778.

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