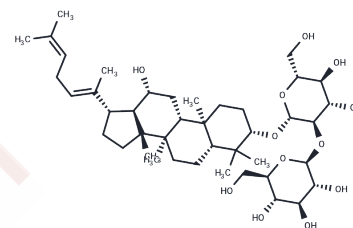


## Ginsenoside Rg5

### Chemical Properties

CAS No. :	186763-78-0
Formula:	C42H70O12
Molecular Weight:	767.00
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



### Biological Description

Description	<ol style="list-style-type: none"> <li>Ginsenoside Rg5 could be a beneficial agent for the treatment of Alzheimer's disease.</li> <li>Ginsenoside Rg5 suppresses LPS-induced nitric oxide (NO) production and proinflammatory TNF-<math>\alpha</math> secretion.</li> <li>Ginsenoside Rg5 can ameliorate lung inflammation possibly by inhibiting the binding of LPS to toll-like receptor (TLR)-4 on macrophages.</li> <li>Ginsenoside Rg5 plays a novel role as an IGF-1R agonist, promoting therapeutic angiogenesis and improving hypertension without adverse effects in the vasculature.</li> <li>Ginsenoside Rg5 blocks cell cycle of SK-HEP-1 cells at the G1/S transition phase by down-regulating cyclin E-dependent kinase activity and that the down-regulation of cyclin E-dependent kinase activity is caused mainly by induced CDK2 inhibitor, p21Cip/WAF1 and decreased levels of cyclin E.</li> </ol>
Targets(IC50)	NF- $\kappa$ B, COX, IGF-1R

### Solubility Information

Solubility	DMSO: 165 mg/mL (215.12 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	<p>10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2.00 mg/mL (2.61 mM), Sonication is recommended.</p> <p><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></p>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.3038 mL	6.5189 mL	13.0378 mL
5 mM	0.2608 mL	1.3038 mL	2.6076 mL
10 mM	0.1304 mL	0.6519 mL	1.3038 mL
50 mM	0.0261 mL	0.1304 mL	0.2608 mL

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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

Ginsenoside Rg5 improves cognitive dysfunction and beta-amyloid deposition in STZ-induced memory impaired rats via attenuating neuroinflammatory responses[J]. International Immunopharmacology, 2014, 19(2):317-326.

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