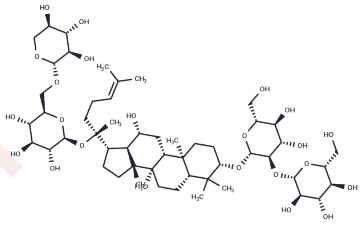
Data Sheet (Cat.No.T3918)

TargetMol

Ginsenoside Rb3

Chemical Properties



CAS No. : 68406-26-8

Formula: C53H90O22

Molecular Weight: 1079.27

Storage: Keep away from direct sunlight,Keep away from moisture,Store at low temperature
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	Ginsenoside Rb3 (Gypenoside IV) is a natural triterpenoid saponin, exhibiting inhibition effect on TNFα-induced NF-κB transcriptional activity. It also inhibits the induction of COX-2 and iNOS mRNA.
Targets(IC50)	NF-κB,NO Synthase,COX

Solubility Information

Solubility	DMSO: 125 mg/mL (115.82 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (9.27 mM),Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (1.85 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9266 mL	4.6328 mL	9.2655 mL
5 mM	0.1853 mL	0.9266 mL	1.8531 mL
10 mM	0.0927 mL	0.4633 mL	0.9266 mL
50 mM	0.0185 mL	0.0927 mL	0.1853 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 L, et al. Ginsenoside Rb3 protects cardiomyocytes against ischemia-reperfusion injury via the inhibition of JNK-mediated NF-κB pathway: a mouse cardiomyocyte model. PLoS One. 2014 Aug 1;9(8):e103628.
Wang T, et al. Ginsenoside Rb3 inhibits angiotensin II-induced vascular smooth muscle cells proliferation. Basic Clin Pharmacol Toxicol. 2010 Aug;107(2):685-9.
Zhu JR, et al. Protective effects of ginsenoside Rb(3) on oxygen and glucose deprivation-induced ischemic injury in PC12 cells. Acta Pharmacol Sin. 2010 Mar;31(3):273-80.
Wang Y, et al. Ginsenoside Rb3 attenuates oxidative stress and preserves endothelial function in renal arteries from hypertensive rats. Br J Pharmacol. 2014 Jul;171(13):3171-81.