

Ginsenoside Ro

Chemical Properties

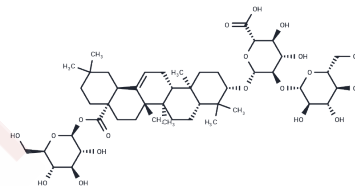
CAS No. : 34367-04-9

Formula: C₄₈H₇₆O₁₉

Molecular Weight: 957.11

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Ginsenoside Ro (Chikusetsusaponin V) can reduce TXA ₂ production, weakly reduce COX-1 and TXAS activities, and has antiplatelet effects as a Ca ²⁺ antagonist with an IC ₅₀ of 155 μM.
Targets(IC ₅₀)	Calcium Channel,Reductase,Prostaglandin Receptor

Solubility Information

Solubility	DMSO: 45 mg/mL (47.02 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	1.0448 mL	5.2241 mL	10.4481 mL
5 mM	0.209 mL	1.0448 mL	2.0896 mL
10 mM	0.1045 mL	0.5224 mL	1.0448 mL
50 mM	0.0209 mL	0.1045 mL	0.209 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.

Reference

- Kang HJ, et al. Antioxidative properties of ginsenoside Ro against UV-B-induced oxidative stress in human dermal fibroblasts. *Biosci Biotechnol Biochem*. 2015 Jul 27:1-4.
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- Murata K, et al. Effects of ginseng rhizome and ginsenoside Ro on testosterone 5 α -reductase and hair re-growth in testosterone-treated mice. *Phytother Res*. 2012 Jan;26(1):48-53.
- Matsuda H, et al. Anti-hepatitic activity of ginsenoside Ro. *Planta Med*. 1991 Dec;57(6):523-6.
- Jung-HaeShin, et al. Inhibitory effects of thromboxane A2 generation by ginsenoside Ro due to attenuation of cytosolic phospholipase A2 phosphorylation and arachidonic acid release. *J Ginseng Res*. 9 Jan 2018.
- Jiang Z, et al. The traditional Chinese medicine *Achyranthes bidentata* and our de novo conception of its metastatic chemoprevention: from phytochemistry to pharmacology. *Sci Rep*. 2017 Jun 20;7(1):3888.

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