

Notoginsenoside R4

Chemical Properties

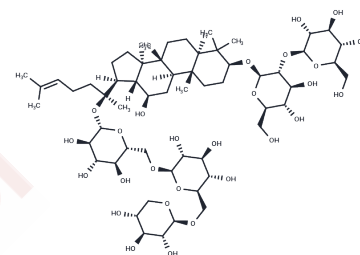
CAS No. : 87741-77-3

Formula: C59H100O27

Molecular Weight: 1241.42

Storage: Store under nitrogen, Keep away from moisture
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	Notoginsenoside R4 is a ginsenoside obtainable from ginseng roots and participates in molecular docking interactions with core disease-related targets including STAT3, AKT1, HRAS, VEGFA, and CASP3, demonstrating favorable binding affinity. These docking results of Notoginsenoside R4, complemented by visualization analyses, highlight Notoginsenoside R4 as an important functional constituent of Panax notoginseng saponins (PNS) with mechanistic implications for anticancer and pro-apoptotic signaling regulation.
Targets(IC50)	Akt,Caspase,STAT,VEGFR
In vitro	compounds 1 (oleanolic acid), 2 (R0), 3 (Rb1), 5 (Rb2), 7 (Rd), 8(Rg3), 12 (PD), 13 (Notoginsenoside R4), 17 [Rg2 (20S)], 18 [Rg2(20R)], and 26 [F3(P)] did not clearly interfere with GJIC, fluorescence recoveries after 15 min of photobleaching in cells treated with these drugs were almost the same as that in the control cell [1].

Solubility Information

Solubility	H2O: 4 mg/mL (3.22 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	0.8055 mL	4.0276 mL	8.0553 mL
5 mM	0.1611 mL	0.8055 mL	1.6111 mL
10 mM	0.0806 mL	0.4028 mL	0.8055 mL
50 mM	0.0161 mL	0.0806 mL	0.1611 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

Effects of ginsenosides from Panax ginseng on cell-to-cell communication function mediated by gap junctions. *Planta Med.* 2001 Jul;67(5):417-22.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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