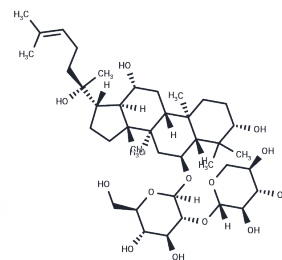


Notoginsenoside R2

Chemical Properties

CAS No. :	80418-25-3
Formula:	C ₄₁ H ₇₀ O ₁₃
Molecular Weight:	770.99
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	Notoginsenoside R2 (20(S)-Notoginsenoside R2) has neuroprotection against 6-OHDA-induced neurotoxicity, is associated with Notoginsenoside R2-mediated P90RSK and Nrf2 activation through MEK1/2-ERK1/2 pathways.
Targets(IC50)	Apoptosis,Nrf2

Solubility Information

Solubility	DMSO: 25 mg/mL (32.43 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 (2.59 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	1.297 mL	6.4852 mL	12.9703 mL
5 mM	0.2594 mL	1.297 mL	2.5941 mL
10 mM	0.1297 mL	0.6485 mL	1.297 mL
50 mM	0.0259 mL	0.1297 mL	0.2594 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

Meng XB, et al. P90RSK and Nrf2 Activation via MEK1/2-ERK1/2 Pathways Mediated by Notoginsenoside R2 to Prevent 6-Hydroxydopamine-Induced Apoptotic Death in SH-SY5Y Cells. Evid Based Complement Alternat Med. 2013;22013:971712.

González-Burgos E, et al. Potential neuroprotective activity of Ginseng in Parkinson's disease: a review. J Neuroimmune Pharmacol. 2015 Mar;10(1):14-29.

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