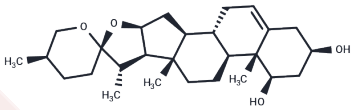
Data Sheet (Cat.No.T6S1256)

TargetMol

Ruscogenin

Chemical Properties



CAS No. : 472-11-7

Formula: C27H42O4

Molecular Weight: 430.62

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	1. Ruscogenin has anti-inflammatory activity, suppressed zymosan A-evoked peritoneal total leukocyte migration in mice in a dose-dependent manner, 2. Ruscogenin inhibited adhesion of leukocytes to a human umbilical vein endothelial cell line (ECV34) injured by tumor necrosis factor-alpha (TNF-alpha) in a concentration-dependent manner. 3. Ruscogenin significantly attenuate LPS-induced acute lung injury via inhibiting expressions of TF and iNOS and NF-kappa B p65 activation.
Targets(IC50)	NOS,NF-κB,NOD-like Receptor (NLR)

Solubility Information

Solubility	DMSO: 78 mg/mL (181.13 mM),Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1.67 mg/mL (3.88 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	2.3222 mL	11.6112 mL	23.2223 mL
5 mM	0.4644 mL	2.3222 mL	4.6445 mL
10 mM	0.2322 mL	1.1611 mL	2.3222 mL
50 mM	0.0464 mL	0.2322 mL	0.4644 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

Huang Y L , Kou J P , Ma L , et al. Possible Mechanism of the Anti-inflammatory Activity of Ruscogenin: Role of Intercellular Adhesion Molecule1 and Nuclear Factor-κB[J]. Journal of Pharmacological Sciences, 2008, 108(2):198-205.