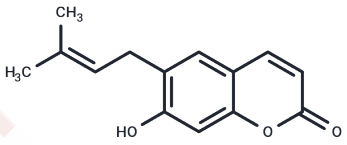
# Data Sheet (Cat.No.T5774)

TargetMol

## Demethylsuberosin

### Chemical Properties



CAS No. : 21422-04-8

Formula: C14H14O3

Molecular Weight: 230.26

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 | 7-Demethylsuberosin (7-demethylsuberosin) is a coumarin compound isolated from Angelica gigas Nakai,and has anti-inflammatory activity,and exhibited inhibitory effects on PGE2 production with the IC50 values of 9.42 μM. |
| Targets(IC50) | Calcium Channel,NO Synthase,Prostaglandin Receptor |
| In vitro | 7-demethylsuberosin was evaluated for their inhibitory activity on LPS-induced NO and prostaglandin E2 (PGE2) productions in RAW 264.7 cells.?7-demethylsuberosin?exhibited high inhibitory effects on PGE2 production with the IC50 values of 9.42, 7.51, and 6.49 μM, respectively[1]. |

### Solubility Information

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|---|---|
| Solubility | DMSO: 250 mg/mL (1085.73 mM),Sonication is recommended.<br>(< 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 (8.69 mM),Sonication is recommended.<br>*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 | 4.3429 mL | 21.7146 mL | 43.4292 mL |
| 5 mM | 0.8686 mL | 4.3429 mL | 8.6858 mL |
| 10 mM | 0.4343 mL | 2.1715 mL | 4.3429 mL |
| 50 mM | 0.0869 mL | 0.4343 mL | 0.8686 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

Kim HJ, Kim HM, Ryu B,et al.Constituents of PG201 (Layla(®)), a multi-component phytopharmaceutical, with inhibitory activity on LPS-induced nitric oxide and prostaglandin E2 productions in macrophages[J].Arch Pharm Res. 2016 Feb;39(2):231-239.

Lacroix D , Prado S , Kamoga D , et al. Structure and in Vitro Antiparasitic Activity of Constituents of Citropsis articulata Root Bark[J]. Journal of Natural Products, 2011, 74(10):2286-2289.