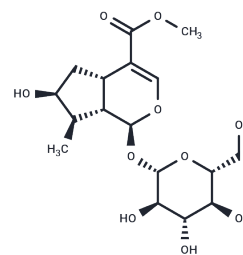


## Loganin

## Chemical Properties

CAS No. :	18524-94-2
Formula:	C <sub>17</sub> H <sub>26</sub> O <sub>10</sub>
Molecular Weight:	390.38
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	Loganin (Loganoside), an iridoid glucoside, has been reported to be an inhibitor of Cox-1 and also noted to suppress TNF- $\alpha$ formation. This compound also has displayed potent free-radical-scavenging activity and inhibitory effects on melanogenesis.
Targets(IC50)	Apoptosis,NF- $\kappa$ B,BACE,AChR,Cholinesterase (ChE),Interleukin,ROS,TNF

## Solubility Information

Solubility	DMSO: 250 mg/mL (640.4 mM),Sonication is recommended. H <sub>2</sub> O: 20 mg/mL (51.23 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 (5.12 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	2.5616 mL	12.808 mL	25.6161 mL
5 mM	0.5123 mL	2.5616 mL	5.1232 mL
10 mM	0.2562 mL	1.2808 mL	2.5616 mL
50 mM	0.0512 mL	0.2562 mL	0.5123 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

Liu K, et al. Life Sci. 2015 Feb 15;123:78-85.

Zhang J, Peng J, Zhang T, et al. Identification of the Main Chemical constituents and mechanism of Renshen Guben oral liquid against Renal Fibrosis. Chinese Medicine. 2023, 18(1): 1-14.

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