

## Loganic acid

### Chemical Properties

CAS No. : 22255-40-9

Formula: C<sub>16</sub>H<sub>24</sub>O<sub>10</sub>

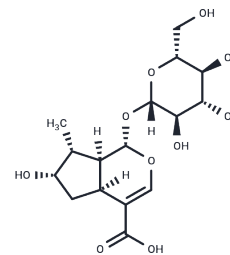
Molecular Weight: 376.36

Keep away from direct sunlight, Keep away from moisture

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. Loganic acid (Loganate) and geniposide exhibit both sides effect on superoxide generation.
Targets(IC50)	Others,NF-κB,Nrf2,Phosphatase,ROS

### Solubility Information

Solubility	DMSO: 250 mg/mL (664.26 mM),Sonication is recommended. Ethanol: Soluble, Pyridine, Methanol, etc.: Soluble, H <sub>2</sub> O: 1 g/mL,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 (5.31 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

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	1mg	5mg	10mg
1 mM	2.657 mL	13.2852 mL	26.5703 mL
5 mM	0.5314 mL	2.657 mL	5.3141 mL
10 mM	0.2657 mL	1.3285 mL	2.657 mL
50 mM	0.0531 mL	0.2657 mL	0.5314 mL

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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

Wei S , Chi H , Kodama H , et al. Anti-inflammatory effect of three iridoids in human neutrophils[J]. Natural Product Research, 2013, 27(10):911-915.

Shim K S, Song H K, Hwang Y H, et al. Ethanol extract of *Veronica persica* ameliorates house dust mite-induced asthmatic inflammation by inhibiting STAT-3 and STAT-6 activation. *Biomedicine & Pharmacotherapy*. 2022, 152: 113264

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481