

## Parishin C

### Chemical Properties

CAS No. : 174972-80-6

Formula: C<sub>32</sub>H<sub>40</sub>O<sub>19</sub>

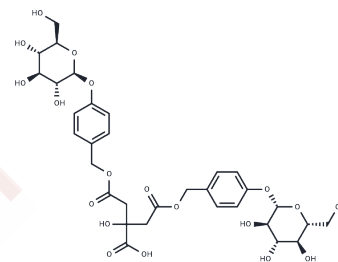
Molecular Weight: 728.65

Storage:

Keep away from direct sunlight, Keep away from moisture, Store at low temperature

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	Parishin C is a phenolic glycoside and a major component of <i>G. elata</i> , have antioxidant property
Targets(IC <sub>50</sub> )	Antioxidant
In vivo	In vivo, parishin C (20 mg/kg) prevents Aβ <sub>42</sub> -induced inhibition of long-term potentiation (LTP) in rats. Parishin is an agonist of the serotonin (5-HT) receptor subtype 5-HT <sub>1A</sub> (K <sub>i</sub> = 1.54 nM; EC <sub>50</sub> = 34 nM for [35S]GTPγS binding) that reverses phencyclidine-induced increases in immobility time in the forced swim test, phencyclidine-induced decreases in interaction time in the social interaction test, and phencyclidine-induced impairments in visual recognition of a novel object in mice[1].

### Solubility Information

Solubility	H <sub>2</sub> O: 33.3 mg/mL (45.7 mM) DMSO: 242.5 mg/mL (332.81 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: 1 mg/mL (1.37 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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.3724 mL	6.862 mL	13.724 mL
5 mM	0.2745 mL	1.3724 mL	2.7448 mL
10 mM	0.1372 mL	0.6862 mL	1.3724 mL
50 mM	0.0274 mL	0.1372 mL	0.2745 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

- Shin E J , Whang W K , Kim S , et al. Parishin C Attenuates Phencyclidine-Induced Schizophrenia-Like Psychosis in Mice: Involvements of 5-HT1A Receptor[J]. Journal of Pharmacological Sciences, 2010, 113(4):404-408.
- Kim DW, Lee WJ, Asmelash Gebru Y, et al. Comparison of Bioactive Compounds and Antioxidant Activities of Maclura tricuspidata Fruit Extracts at Different Maturity Stages[J]. Molecules. 2019 Feb 4;24(3). pii: E567.

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