

## Tricin 7-O-glucoside

## Chemical Properties

CAS No. : 32769-01-0

Formula: C<sub>23</sub>H<sub>24</sub>O<sub>12</sub>

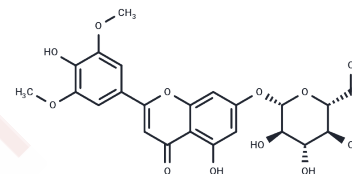
Molecular Weight: 492.43

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	Tricin 7-O-glucoside is a naturally occurring flavonoid with antidepressant and anxiolytic properties that increases the activity time of mice in the forced swim test. It protects the brain by attenuating brain I/R damage and attenuating blood-brain barrier (BBB) disruption, decreasing HMGB1 and NF-κB signaling pathways.
Targets(IC50)	Apoptosis, NF-κB
In vivo	<p><b>Methods:</b> The organic fraction (PcEA) was obtained from the hydroalcoholic extract of the aerial parts of <i>P. coriacea</i> and then subjected to chemical analysis and separation to obtain six fractions (PcEA, T1, T2, T1.1, T2.1 and T2.2). Male ICR mice were used to determine the antidepressant activity of the selected treatments (PcEA, T1, T2 and T1.1) based on the forced swim test (FST). The anxiolytic-like effects of various treatments (PcEA, T1, T2, T2.1 and T2.2) were determined using the elevated plus maze (EPM) test.</p> <p><b>Results:</b> The organic fraction of <i>P. coriacea</i> reduced the anxiety-like behavior of mice and increased the activity time in the FST. After chemical separation, two compounds with antidepressant activity and anxiolytic-like effects were isolated from the species, namely T1.1 (Tricin 7-O-glucoside) and T2.2 (harmaline). [1]</p>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.0307 mL	10.1537 mL	20.3075 mL
5 mM	0.4061 mL	2.0307 mL	4.0615 mL
10 mM	0.2031 mL	1.0154 mL	2.0307 mL
50 mM	0.0406 mL	0.2031 mL	0.4061 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

Castolo-Sanchez S, et al. Antidepressant activity of tricin-7-O-glucoside and anxiolytic-like effect of harmaline from *Passiflora coriacea* Juss. On mice. *J Ethnopharmacol.* 2024 Dec 5;335:118624.

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