

## Quercetin 3-O-robinobioside

## Chemical Properties

CAS No. : 52525-35-6

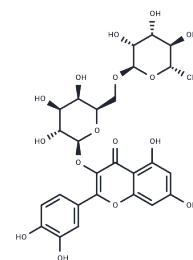
Formula: C<sub>27</sub>H<sub>30</sub>O<sub>16</sub>

Molecular Weight: 610.52

Storage: Store at low temperature, Keep away from direct sunlight

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	Quercetin 3-O-robinobioside is a quercetin-derived flavonol that exhibits strong antioxidant properties and demonstrates in vitro inhibitory activity against leukemia K562 cells, Quercetin 3-O-robinobioside supports cancer biology, oxidative stress research, as well as natural product-based drug discovery focused on antiproliferative and cytoprotective mechanisms.
Targets(IC50)	Others
In vitro	The chemical constituents of Leonurus heterophyllus were separated and purified by repeated column chromatography on silica gel, HPD 100, Sephadex LH-20, and PHPLC. Each compound was characterized by spectroscopic and physical data. Eight compounds have been purified and identified to be Quercetin 3-O-robinobioside (1), rutin (2), isoquercitrin (3), hyperoside (4), quercetin (5), apigenin (6), genkwanin (7), and benzoic acid (8). Among them, compounds 2, 5-7 were isolated from L. heterophyllus for the first time; Compounds 1, 3, 4, 8 were obtained for the first time from the genus Leonurus. The in vitro activities against leukemia K562 Cells of pure components were evaluated by testing their IC50.

## Solubility Information

Solubility	DMSO: 80 mg/mL (131.04 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.6379 mL	8.1897 mL	16.3795 mL
5 mM	0.3276 mL	1.6379 mL	3.2759 mL
10 mM	0.1638 mL	0.819 mL	1.6379 mL
50 mM	0.0328 mL	0.1638 mL	0.3276 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

Chemical constituents and antitumor activity on leukemia K562 cell of *Leonurus heterophyllus*. *Zhongguo Zhong Yao Za Zhi*. 2009 Jul;34(14):1816-8.

Thierry Brasseur, et al. Flavonol glycosides from leaves of *Strychnos variabilis*. *Phytochemistry*. 1986, 25, 2.

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