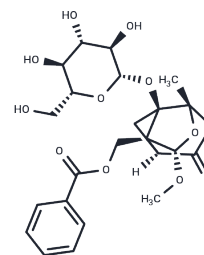


## Paeonidanin

## Chemical Properties

CAS No. :	209969-75-5
Formula:	C <sub>24</sub> H <sub>30</sub> O <sub>11</sub>
Molecular Weight:	494.49
Storage:	Keep away from direct sunlight, Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Paeonidanin is a monoterpenoid natural product with pharmacological activities such as anti-inflammatory, neuroprotective, and immunomodulatory effects, and can be used as a reference standard for natural products. Paeonidanin can inhibit the release of inflammatory factors such as NO, TNF- $\alpha$ , and IL-6 from macrophages induced by lipopolysaccharide (LPS).
Targets(IC50)	Others
In vitro	Methods: The mouse macrophage line RAW 264.7 was pretreated with Paeonidanin (33 $\mu$ M) for 2 hours, then stimulated with LPS (1 $\mu$ g/mL) for 24 hours. The cell supernatant was reacted with Griess reagent, and the absorbance was measured at 540 nm; quantification was performed using a sodium nitrite standard curve. Results: Paeonidanin significantly inhibited LPS-induced NO production at a concentration of 33 $\mu$ M. [1]

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0223 mL	10.1114 mL	20.2229 mL
5 mM	0.4045 mL	2.0223 mL	4.0446 mL
10 mM	0.2022 mL	1.0111 mL	2.0223 mL
50 mM	0.0404 mL	0.2022 mL	0.4045 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

Bi X, Han L, et al. Anti-Inflammatory Effects, SAR, and Action Mechanism of Monoterpenoids from Radix Paeoniae Alba on LPS-Stimulated RAW 264.7 Cells. *Molecules*. 2017;22(5):715. Published 2017 Apr 29.

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