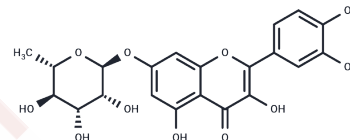


## Vincetoxicoside B

## Chemical Properties

CAS No. :	22007-72-3
Formula:	C <sub>21</sub> H <sub>20</sub> O <sub>11</sub>
Molecular Weight:	448.38
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	Vincetoxicoside B, isolated from Polygonum paleaceum Wall. Vincetoxicoside B, quercetin, kaempferol, and (-)-epicatechin show synergistic antifungal activities with the FICI values <0.5.
Targets(IC50)	Anti-infection, Antifungal
In vitro	A new compounds neopaleaceolactoside (1), along with nine known compounds phyllocoumarin (2), quercetin (3), quercitrin (4), quercetin-3-methyl ether (5), Vincetoxicoside B (6), isoquercitrin (7), kaempferol (8), (-)-epicatechin (9), and chlorogenic acid (10), was isolated from Polygonum paleaceum Wall. Their chemical structures were established based on one-dimensional and two-dimensional nuclear magnetic resonance techniques, mass spectrometry and by comparison with spectroscopic data reported. Some selected compounds were screened for their antifungal activity. Quercetin (3), Vincetoxicoside B (6), kaempferol (8), and (-)-epicatechin (9) showed synergistic antifungal activities with the FICI values <0.5.

## Solubility Information

Solubility	DMSO: 150 mg/mL (334.54 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (22.3 mM), Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.23 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	2.2303 mL	11.1513 mL	22.3025 mL
5 mM	0.4461 mL	2.2303 mL	4.4605 mL
10 mM	0.223 mL	1.1151 mL	2.2303 mL
50 mM	0.0446 mL	0.223 mL	0.4461 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 from the rhizome of *Polygonum paleaceum* and their antifungal activity. *J Asian Nat Prod Res.* 2017 Jan;19(1):47-52.

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