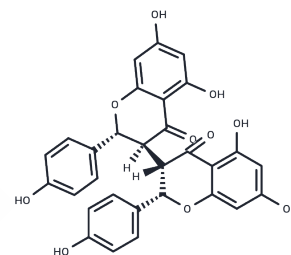


## Neochamaejasmine B

## Chemical Properties

CAS No. : 90411-12-4  
 Formula: C<sub>30</sub>H<sub>22</sub>O<sub>10</sub>  
 Molecular Weight: 542.49  
 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	Neochamaejasmine B displays nematicidal activity against both <i>Bursaphelenchus xylophilus</i> and <i>Bursaphelenchus mucronatus</i> .
Targets(IC50)	Antifection
In vitro	In this field, <i>Stellera chamaejasme</i> L. (Thymelaeaceae) is one of the most toxic and ecologically-threatening weeds in some of the grasslands of north and west China. Bioassay-guided fractionation of root extracts of this plant led to the isolation of eight flavonoids 1-8, whose structures were elucidated by spectroscopic analysis. All compounds obtained, except 7-methoxylneochaejasmin A (4) and (+)-epiafzelechin (5), showed strong phytotoxic activity against <i>Arabidopsis thaliana</i> seedlings. Seedling growth was reduced by neochamaejasmin B (Neochamaejasmine B,1), mesoneochamaejasmin A (2), chamaejasmenin C (3), genkwanol A (6), daphnodorin B (7) and dihydrodaphnodorin B (8) with IC <sub>50</sub> values of 6.9, 12.1, 43.2, 74.8, 7.1 and 27.3 µg/mL, respectively, and all of these compounds disrupted root development[1]

## Solubility Information

Solubility	DMSO: 65 mg/mL (119.82 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	1.8434 mL	9.2168 mL	18.4335 mL
5 mM	0.3687 mL	1.8434 mL	3.6867 mL
10 mM	0.1843 mL	0.9217 mL	1.8434 mL
50 mM	0.0369 mL	0.1843 mL	0.3687 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

Phytotoxic flavonoids from roots of *Stellera chamaejasme* L. (Thymelaeaceae). *Phytochemistry*. 2014 Oct;106:61-8.

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