

## Pangelin

## Chemical Properties

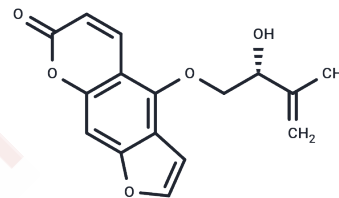
CAS No. : 33783-80-1

Formula: C<sub>16</sub>H<sub>14</sub>O<sub>5</sub>

Molecular Weight: 286.28

Storage: 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	Pangelin is a natural coumarin exhibiting $\mu$ M-level inhibition of arachidonic acid-induced platelet aggregation.
Targets(IC <sub>50</sub> )	Platelet aggregation
In vitro	Pangelin exhibits significant cytotoxicity against four tumor cell lines, with an IC <sub>50</sub> range of 8.6-14.6 $\mu$ g/mL [1].

## Solubility Information

Solubility	DMSO: 40 mg/mL (139.72 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4931 mL	17.4654 mL	34.9308 mL
5 mM	0.6986 mL	3.4931 mL	6.9862 mL
10 mM	0.3493 mL	1.7465 mL	3.4931 mL
50 mM	0.0699 mL	0.3493 mL	0.6986 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

Thanh PN, et, al. Cytotoxic coumarins from the root of *Angelica dahurica*. *Arch Pharm Res.* 2004 Dec;27(12):1211-5.

Stavr M, et, al. Pangelin, an antimycobacterial coumarin from *Ducrosia anethifolia*. *Planta Med.* 2003 Oct;69(10):956-9.

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