

## Tangeretin

## Chemical Properties

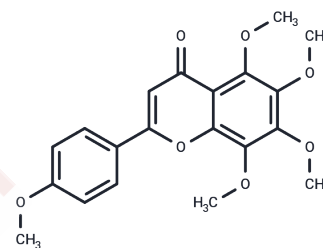
CAS No. : 481-53-8

Formula: C<sub>20</sub>H<sub>20</sub>O<sub>7</sub>

Molecular Weight: 372.37

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	Tangeretin (NSC-618905), a flavonoid from citrus fruit peels, has been proven to play an important role in anti-inflammatory responses and neuroprotective effects in several disease models and was also selected as a Notch-1 inhibitor.
Targets(IC50)	Apoptosis, Gamma-secretase
In vitro	Tangeritin is a bitter tasting compound and can be found in a number of food items such as tea, sweet bay, garden onion (var. ), and broccoli. It has been proven to play an important role in neuroprotective effects and anti-inflammatory responses in several disease models and was also selected as a Notch-1 inhibitor.

## Solubility Information

Solubility	DMSO: 30 mg/mL (80.57 mM), Sonication is recommended. Methanol: 5 mg/mL (13.43 mM), Sonication is recommended. H <sub>2</sub> O: Insoluble Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (5.37 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	2.6855 mL	13.4275 mL	26.855 mL
5 mM	0.5371 mL	2.6855 mL	5.371 mL
10 mM	0.2686 mL	1.3428 mL	2.6855 mL
50 mM	0.0537 mL	0.2686 mL	0.5371 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

Hirano T, et al. Br J Cancer, 1995, 72(6), 1380-1388.

Pan MH, et al. Carcinogenesis, 2002, 23(10), 1677-1684.

Chen KH, et al. Biochem Pharmacol, 2007, 73(2), 215-227.

Hagenlocher Y, et al. Citrus peel polymethoxyflavones nobiletin and tangeretin suppress LPS- and IgE-mediated activation of human intestinal mast cells. Eur J Nutr. 2016 Mar 28.

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