

## Xanthoangelol

## Chemical Properties

CAS No. : 62949-76-2

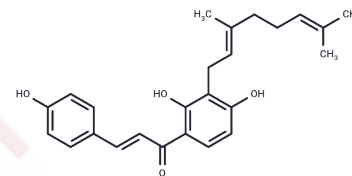
Formula: C<sub>25</sub>H<sub>28</sub>O<sub>4</sub>

Molecular Weight: 392.49

Store at low temperature

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	Xanthoangelol, which can be extracted from Angelica keiskei, inhibits obesity-induced inflammatory responses. Xanthoangelol has antimicrobial activity, inhibits monoamine oxidase, and induces apoptosis in neuroblastoma and leukemia cells.
Targets(IC50)	Apoptosis, Caspase, Antibacterial, AMPK, Monoamine Oxidase, Monoamine Transporter

## Solubility Information

Solubility	DMSO: 80 mg/mL (203.83 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	2.5478 mL	12.7392 mL	25.4784 mL
5 mM	0.5096 mL	2.5478 mL	5.0957 mL
10 mM	0.2548 mL	1.2739 mL	2.5478 mL
50 mM	0.051 mL	0.2548 mL	0.5096 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

Li Y, et al. Xanthoangelol and 4-hydroxyderricin suppress obesity-induced inflammatory responses. *Obesity* (Silver Spring). 2016 Nov;24(11):2351-2360.

Inamori Y, et al. Antibacterial activity of two chalcones, xanthoangelol and 4-hydroxyderricin, isolated from the root of *Angelica keiskei* KOIDZUMI. *Chem Pharm Bull* (Tokyo). 1991 Jun;39(6):1604-5.

Kim JH, et al. Xanthoangelol and 4-Hydroxyderricin Are the Major Active Principles of the Inhibitory Activities against Monoamine Oxidases on *Angelica keiskei* K. *Biomol Ther* (Seoul). 2013 May 30;21(3):234-40.

Keiichi TABATA, et al. Xanthoangelol, a Major Chalcone Constituent of *Angelica keiskei*, Induces Apoptosis in Neuroblastoma and Leukemia Cells. *Biol. Pharm. Bull.* 28(8) 1404-1407 (2005).

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