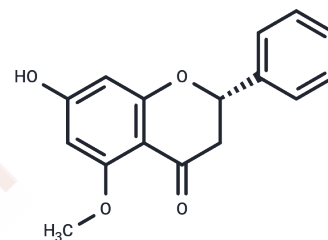


## Alpinetin

## Chemical Properties

CAS No. :	36052-37-6
Formula:	C <sub>16</sub> H <sub>14</sub> O <sub>4</sub>
Molecular Weight:	270.28
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	Alpinetin ((-)-alpinetin) has antibacterial activity. Alpinetin has anti-inflammatory activity. Alpinetin can enhance the sensitivity of HepG2 hepatoma cells to the chemotherapeutic agent CDDP. Alpinetin has strong anti-hepatoma and pancreatic cancer cells effects, by inhibiting proliferation, regulating of the Bcl-2 family and XIAP expression, releasing of cytochrome c and activating caspases.
Targets(IC50)	Bcl-2 Family, Nrf2, PPAR, TLR

## Solubility Information

Solubility	DMSO: 49 mg/mL (181.29 mM), Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone: Soluble, ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (7.4 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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.6999 mL	18.4993 mL	36.9987 mL
5 mM	0.740 mL	3.6999 mL	7.3997 mL
10 mM	0.370 mL	1.8499 mL	3.6999 mL
50 mM	0.074 mL	0.370 mL	0.740 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

Guan S, et al. Immunosuppressive activity of alpinetin on activation and cytokines secretion of murine T lymphocytes. Immunopharmacol Immunotoxicol. 2014 Aug;36(4):290-6.

Jiang Z, et al. Alpinetin enhances cholesterol efflux and inhibits lipid accumulation in oxidized low-density lipoprotein-loaded human macrophages. Biotechnol Appl Biochem. 2015 Nov-Dec;62(6):840-7.

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