

## Irigenin

## Chemical Properties

CAS No. : 548-76-5

Formula: C<sub>18</sub>H<sub>16</sub>O<sub>8</sub>

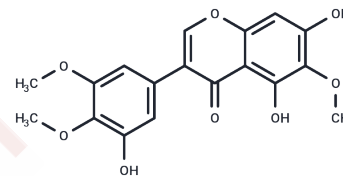
Molecular Weight: 360.31

Keep away from direct sunlight, Keep away from moisture

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	Irigenin mediates its antimetastatic effect by specifically and selectively blocking the $\alpha 9\beta 1$ and $\alpha 4\beta 1$ integrin binding sites on the C-C loop of the Extra Domain A domain. It can sensitize TRAIL-induced apoptosis by enhancing the expression of pro-apoptotic molecules in gastric cancer cells and has anti-cancer effects.
Targets(IC50)	Apoptosis, NF- $\kappa$ B, Integrin

## Solubility Information

Solubility	DMSO: 65 mg/mL (180.4 mM), Sonication is recommended. ( $< 1$ 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 (5.55 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	2.7754 mL	13.8769 mL	27.7539 mL
5 mM	0.5551 mL	2.7754 mL	5.5508 mL
10 mM	0.2775 mL	1.3877 mL	2.7754 mL
50 mM	0.0555 mL	0.2775 mL	0.5551 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

Kwang Seok Ahn, et al. Inhibitory effects of Iridogenin from the rhizomes of *Belamcanda chinensis* on nitric oxide and prostaglandin E2 production in murine macrophage RAW 264.7 cells. 2006, 78(20): 2336-2342.

Xu L L, Zhang Y, Chai Y, et al. Differentiation of *belamcandae rhizoma* and *iridis tectori rhizoma* by thin-layer chromatography and high-performance liquid chromatography[J]. World Journal of Traditional Chinese Medicine. 2021

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