

## Brazilin

## Chemical Properties

CAS No. : 474-07-7

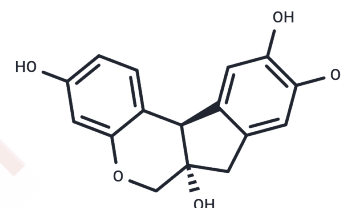
Formula: C<sub>16</sub>H<sub>14</sub>O<sub>5</sub>

Molecular Weight: 286.28

Storage: Keep away from direct sunlight, Keep away from moisture

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	1. Brazilin (Braziletto) exhibits anti-hepatotoxic, antiplatelet effects. 2. Brazilin has cancer preventive effect, may inhibit T24 cell growth and trigger cell death through a c-Fos-mediated and tumor cell specific signaling pathway. 3. Brazilin has anti-inflammatory property, can suppress mastitis and high glucose-induced vascular inflammatory process related with the inhibition of oxidative stress, CAMs expression, and NF-κB activation in HUVEC; may be useful to treat chronic inflammatory disorders including rheumatoid arthritis.
Targets(IC50)	Apoptosis, AMPK, Autophagy

## Solubility Information

Solubility	DMSO: 52 mg/mL (181.64 mM), Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: 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 (6.99 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	3.4931 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

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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

Lee Y R , Noh E M , Han J H , et al. Brazilin inhibits UVB-induced MMP-1/3 expressions and secretions by suppressing the NF- $\kappa$ B pathway in human dermal fibroblasts[J]. European Journal of Pharmacology, 2012, 674(2-3):80-86.

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