

Umbelliprenin

Chemical Properties

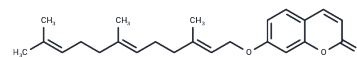
CAS No. : 23838-17-7

Formula: C₂₄H₃₀O₃

Molecular Weight: 366.49

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	Umbelliprenin (7-[[[(2E,6E)-3,7,11-Trimethyl-2,6,10-dodecatrienyl]oxy]-2H-1-benzopyran-2-oneUmbelliprenin) alleviated neuropathic pain, and decreased serum IL-6 levels and oxidative stress.
Targets(IC50)	NO Synthase,IL Receptor,Lipoxygenase
In vitro	Umbelliprenin (UMB) is a prenylated coumarin that acts as an in vitro antioxidant and inhibits lipoxygenase managing the inflammation pathways.
In vivo	Umbelliprenin exerts anti-inflammatory activities in vivo, also can be considered as a good candidate for the treatment of colorectal cancer.

Solubility Information

Solubility	DMF: 30 mg/mL (81.86 mM),Sonication is recommended. DMSO: 5 mg/mL (13.64 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	2.7286 mL	13.6429 mL	27.2859 mL
5 mM	0.5457 mL	2.7286 mL	5.4572 mL
10 mM	0.2729 mL	1.3643 mL	2.7286 mL
50 mM	0.0546 mL	0.2729 mL	0.5457 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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