

Scopolin

Chemical Properties

CAS No. : 531-44-2

Formula: C₁₆H₁₈O₉

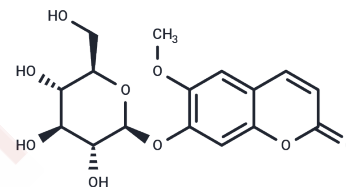
Molecular Weight: 354.31

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	Scopolin (Scopoloside) formation is increased by the enhanced activity of PAL. Scopolin can reduce the clinical symptoms of rat AIA by inhibiting inflammation and angiogenesis, and this compound may be a potent agent for angiogenesis related diseases and can serve as a structural base for screening more potent synthetic analogs.
Targets(IC50)	Sirtuin

Solubility Information

Solubility	DMSO: 125 mg/mL (352.8 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 (5.64 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

	1mg	5mg	10mg
1 mM	2.8224 mL	14.1119 mL	28.2239 mL
5 mM	0.5645 mL	2.8224 mL	5.6448 mL
10 mM	0.2822 mL	1.4112 mL	2.8224 mL
50 mM	0.0564 mL	0.2822 mL	0.5645 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

- Pan R, et al. Scopolin isolated from *Erycibe obtusifolia* Benth stems suppresses adjuvant-induced rat arthritis by inhibiting inflammation and angiogenesis. *Int Immunopharmacol.* 2009 Jul;9(7-8):859-69.
- Gao F, Robe K, Bettembourg M, et al. The Transcription Factor bHLH121 Interacts with bHLH105 (ILR3) and its Closest Homologs to Regulate Iron Homeostasis in Arabidopsis. *The Plant Cell.* 2020, 32(2): 508-524
- Robe K, Conejero G, Gao F, et al. Coumarin accumulation and trafficking in Arabidopsis thaliana: a complex and dynamic process. *New Phytologist.* 2021 Feb;229(4):2062-2079
- Rollinger JM, et al. Acetylcholinesterase inhibitory activity of scopolin and scopoletin discovered by virtual screening of natural products. *J Med Chem.* 2004 Dec 2;47(25):6248-54.
- Ference C M, Manthey J, Narciso J, et al. Detection of phenylpropanoids in citrus leaves produced in response to *Xanthomonas citri* subsp. *citri*[J]. *Phytopathology.* 2020, 110(2): 287-296.
- Ference C M, Manthey J, Narciso J, et al. Detection of phenylpropanoids in citrus leaves produced in response to *Xanthomonas citri* subsp. *Citri*. *Phytopathology.* 2020, 110(2): 287-296
- Robe K, Conejero G, Gao F, et al. Coumarin accumulation and trafficking in Arabidopsis thaliana: a complex and dynamic process[J]. *New Phytologist.* 2020
- Gao F, Robe K, Bettembourg M, et al. The Transcription Factor bHLH121 Interacts with bHLH105 (ILR3) and its Closest Homologs to Regulate Iron Homeostasis in Arabidopsis[J]. *The Plant Cell.* 2020, 32(2): 508-524.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481