

Tectorigenin

Chemical Properties

CAS No. : 548-77-6

Formula: C₁₆H₁₂O₆

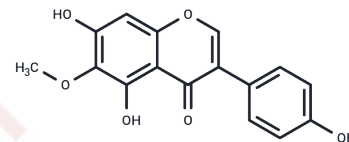
Molecular Weight: 300.26

Keep away from moisture, Keep away from direct sunlight

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	Tectorigenin (4',5,7-Trihydroxy-6-methoxyisoflavone) is an O-methylated isoflavone. Tectorigenin Promotes Osteoblast Differentiation and in vivo Bone Healing, but Suppresses Osteoclast Differentiation and in vivo Bone Resorption.
Targets(IC50)	Apoptosis

Solubility Information

Solubility	DMSO: 123 mg/mL (409.64 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: 4 mg/mL (13.32 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	3.3304 mL	16.6522 mL	33.3045 mL
5 mM	0.6661 mL	3.3304 mL	6.6609 mL
10 mM	0.333 mL	1.6652 mL	3.3304 mL
50 mM	0.0666 mL	0.333 mL	0.6661 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

- Li QY, Chen L, Yan MM, et al. Tectorigenin regulates adipogenic differentiation and adipocytokines secretion via PPAR γ and IKK/NF- κ B signaling. *Pharm Biol.* 2015;53(11):1567-75.
- Amin A1, Mokhdomi TA1, Bukhari S1, et al. Tectorigenin ablates the inflammation-induced epithelial-mesenchymal transition in a co-culture model of human lung carcinoma. *Pharmacol Rep.* 2015 Apr;67(2):382-7.
- Shuai S1, Yue S1, et al. Preparation, characterization and in vitro/vivo evaluation of tectorigenin solid dispersion with improved dissolution and bioavailability. *Eur J Drug Metab Pharmacokinet.* 2016 Aug;41(4):413-22.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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