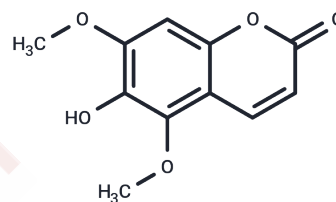


Fraxinol

Chemical Properties

CAS No. :	486-28-2
Formula:	C ₁₁ H ₁₀ O ₅
Molecular Weight:	222.19
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	Fraxinol is a predicted metabolite generated by BioTransformer1 that is produced by the metabolism of 5, 7-dimethoxy-2h-chromen-2-one. It is generated by cyp1a2, cyp2a6, cyp2b6, cyp2c9, cyp2c19, and cyp2e1 enzymes via an aromatic-hydroxylation-of-fused-benzene-ring-pattern1 reaction.
Targets(IC50)	Cytochromes P450

Solubility Information

Solubility	DMSO: 60 mg/mL (270.04 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 (9 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	4.5007 mL	22.5033 mL	45.0065 mL
5 mM	0.9001 mL	4.5007 mL	9.0013 mL
10 mM	0.4501 mL	2.2503 mL	4.5007 mL
50 mM	0.090 mL	0.4501 mL	0.9001 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

Hammoda, H., Ela, M., El-Lankany, A., El-Hanbali, O., Zaki, C., & Ghazy, N. (2008). New constituents of *Artemisia monosperma* Del. *Pharmazie*, 63(8), 611-4.

Riveiro, M., Maes, D., Vázquez, R., Vermeulen, M., Mangelinckx, S., & Jacobs, J. et al. (2009). Toward establishing structure-activity relationships for oxygenated coumarins as differentiation inducers of promonocytic leukemic cells. *Bioorganic & Medicinal Chemistry*, 17(18), 6547-6559. doi: 10.12016/j.bmc.2009.08.2002

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