

Fraxin

Chemical Properties

CAS No. : 524-30-1

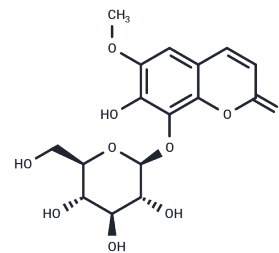
Formula: C₁₆H₁₈O₁₀

Molecular Weight: 370.31

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	Fraxin (Fraxoside) is a glucoside of fraxetin.
Targets(IC50)	OAT,PDE,transporter

Solubility Information

Solubility	DMSO: 50 mg/mL (135.02 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 (5.4 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	2.7004 mL	13.5022 mL	27.0044 mL
5 mM	0.5401 mL	2.7004 mL	5.4009 mL
10 mM	0.270 mL	1.3502 mL	2.7004 mL
50 mM	0.054 mL	0.270 mL	0.5401 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

- Whang WK, ET AL. Natural compounds, fraxin and chemicals structurally related to fraxin protect cells from oxidative stress. *Exp Mol Med*. 2005 Oct 31;37(5):436-46.
- 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
- Li C, et al. Non-aqueous capillary electrophoresis for separation and simultaneous determination of fraxin, esculin and esculetin in Cortex fraxini and its medicinal preparations. *Biomed Chromatogr*. 2005 Nov;19(9):696-702.
- 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
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