

Mulberrin

Chemical Properties

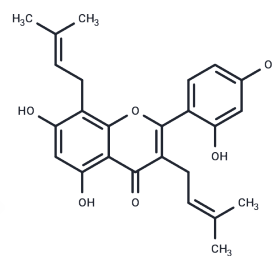
CAS No. : 62949-79-5

Formula: C₂₅H₂₆O₆

Molecular Weight: 422.47

Storage: Store at low temperature, Keep away from moisture
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	Mulberrin (Kuwanon C) is an inhibitor of OATP2B1-mediated estrone-3-sulfate (E3S) uptake (IC ₅₀ : 1.8 ±1.5 μM).
Targets(IC ₅₀)	OAT,Others
In vitro	Mulberrin is a strong inhibitor of OATP2B1 with more than 80% inhibition. Mulberrin also inhibits organic anion-transporting polypeptide (OATP)-mediated uptake of Fluvastatin, Atorvastatin, and Rosuvastatin.

Solubility Information

Solubility	DMSO: 260 mg/mL (615.43 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 (4.73 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	2.367 mL	11.8352 mL	23.6703 mL
5 mM	0.4734 mL	2.367 mL	4.7341 mL
10 mM	0.2367 mL	1.1835 mL	2.367 mL
50 mM	0.0473 mL	0.2367 mL	0.4734 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

Wen F, et al. Identification of natural products as modulators of OATP2B1 using LC-MS/MS to quantify OATP-mediated uptake. *Pharm Biol.* 2016;54(2):293-302.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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