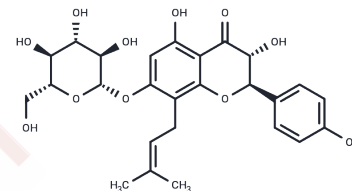


Phellamurin

Chemical Properties

CAS No. :	52589-11-4
Formula:	C ₂₆ H ₃₀ O ₁₁
Molecular Weight:	518.51
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	Phellamurin inhibits intestinal P-glycoprotein in a dose-dependent manner, there is a serious interaction occurred between Phellamurin with cyclosporin, to ensure the efficacy of cyclosporin, we suggest that the coadministration of Phellamurin or Phellodendron wilsonii with cyclosporin should be avoided.
Targets(IC50)	Apoptosis,P-gp
In vitro	Administration of 0-10 μ g/mL Phellamurin for 48 hours in U2OS and Saos-2 cells leads to a repression of cell viability dose-dependently, promotes the apoptosis of U2OS and Saos-2 cells concentration-dependently, and declines the ratios of p-PI3K/PI3K, p-AKT/AKT, and p-mTOR/mTOR in U2OS and Saos-2 cells[1].
In vivo	Intraperitoneal injection of 50 mg/kg/day Phellamurin daily for 21 days in female BALB/c nude mice represses osteosarcoma tumor growth in vivo. The ratios of p-PI3K/PI3K, p-AKT/AKT, and p-mTOR/mTOR are decreased in xenograft in Phellamurin-treated mice[1].

Solubility Information

Solubility	DMSO: 55 mg/mL (106.07 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9286 mL	9.643 mL	19.286 mL
5 mM	0.3857 mL	1.9286 mL	3.8572 mL
10 mM	0.1929 mL	0.9643 mL	1.9286 mL
50 mM	0.0386 mL	0.1929 mL	0.3857 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

Hongzhi Zhang, et al. Anti-tumor Efficacy of Phellamurin in Osteosarcoma Cells: Involvement of the PI3K/AKT/mTOR Pathway. *Eur J Pharmacol.* 2019 Sep 5;858:172477.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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