

Friedelin

Chemical Properties

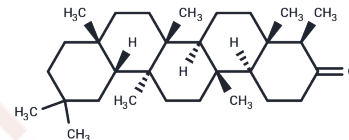
CAS No. : 559-74-0

Formula: C₃₀H₅₀O

Molecular Weight: 426.72

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	Friedelin possesses antioxidant, gastroprotective, anti-diarrhoeal, liver protective, anti-inflammatory, analgesic and antipyretic activities.
Targets(IC50)	NOS,NF-κB,Caspase,Cytochromes P450,Interleukin,Prostaglandin Receptor
In vitro	In in vitro antioxidant study, the free radical scavenging effect of Friedelin on 2,2-diphenyl-picrylhydrazyl (DPPH), hydroxyl, nitric oxide and superoxide radicals were evaluated. Friedelin showed very good scavenging effect on DPPH (IC ₅₀ 21.1 mM), hydroxyl (IC ₅₀ 19.8 mM), nitric oxide (IC ₅₀ 22.1 mM) and superoxide (IC ₅₀ 21.9 mM) radicals. Friedelin also showed strong suppressive effect on lipid peroxidation. In in vivo antioxidant study, CCl ₄ induced oxidative stress on rats produced significant increase in serum glutamate oxaloacetate transaminase (SGOT), serum glutamate pyruvate transaminase (SGPT) and lactate dehydrogenase (LDH) levels along with reduction in liver superoxide dismutase (SOD), catalase (CAT), reduced glutathione (GSH) and glutathione peroxidase (GPx) levels. Pre-treatment of rats with Friedelin at 40 mg/kg for 7 days restored these levels to normality and showed liver protection, comparable to the standard, silymarin (25 mg/kg)[1]

Solubility Information

Solubility	H ₂ O: Insoluble, DMSO: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3435 mL	11.7173 mL	23.4346 mL
5 mM	0.4687 mL	2.3435 mL	4.6869 mL
10 mM	0.2343 mL	1.1717 mL	2.3435 mL
50 mM	0.0469 mL	0.2343 mL	0.4687 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

Antioxidant, free radical scavenging and liver protective effects of friedelin isolated from *Azima tetracantha* Lam. leaves. *Food Chem.* 2013 Aug 15;139(1-4):860-5.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481