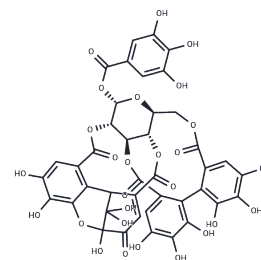


Geraniin

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 60976-49-0 |
| Formula: | C ₄₁ H ₂₈ O ₂₇ |
| Molecular Weight: | 952.64 |
| Storage: | Keep away from direct sunlight, Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i> |



Biological Description

| | |
|---------------|---|
| Description | 1. Geraniin has a protective effect against OVX-induced rat osteoporosis. 2. Geraniin has cytotoxic activity towards cancer cells in vitro and in vivo. 3. Geraniin exerts inhibitory effects on osteoclast differentiation in vitro and suppresses Ti particle-induced osteolysis in vivo, is a potential natural compound for the treatment of wear particle induced osteolysis in prostheses failure. 4. Geraniin has anti-oxidant activity, induces Nrf2-mediated expression of antioxidant enzymes HO-1 and NQO1, presumably via PI3K/AKT and ERK1/2 signaling pathways, thereby protecting cells from H ₂ O ₂ -induced oxidative cell death. 5. Geraniin presents radioprotective effects by regulating DNA damage on splenocytes, exerting immunostimulatory capacities and inhibiting apoptosis of radiosensitive immune cells and jejunal crypt cells. |
| Targets(IC50) | Antioxidant, TNF |

Solubility Information

| | |
|---------------------|---|
| Solubility | Ethanol: Soluble, Pyridine, Methanol, etc.: Soluble, DMSO: 247.5 mg/mL (259.8 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: 3.3 mg/mL (3.46 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 | 1.0497 mL | 5.2486 mL | 10.4971 mL |
| 5 mM | 0.2099 mL | 1.0497 mL | 2.0994 mL |
| 10 mM | 0.105 mL | 0.5249 mL | 1.0497 mL |
| 50 mM | 0.021 mL | 0.105 mL | 0.2099 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

Geraniin exerts cytoprotective effect against cellular oxidative stress by upregulation of Nrf2-mediated antioxidant enzyme expression via PI3K/AKT and ERK1/2 pathway[J]. Biochimica et Biophysica Acta (BBA) - General Subjects, 2015, 1850(9):1751-1761.

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