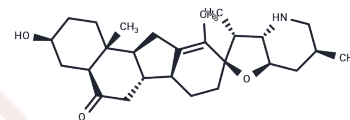


Peimisine

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 19773-24-1 |
| Formula: | C ₂₇ H ₄₁ NO ₃ |
| Molecular Weight: | 427.62 |
| 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 | 1. Peimisine (Ebeiensine) can affect M-receptor, excit β -receptor, restrain the release of internal calcium, and promote to releasing nitrogen monoxidum in order to relax tracheal smooth muscle and relieve asthma. 2. Peimisine can attenuate lung tissue injury(ALI), LDH and MDA amount in ALI mice in a dose dependent manner, it also lower the total protein, total white blood cells, lymphocyte and neutrophilic leukocyte in bronchoalveolar lavage fluid(BALF); suggests that peimisine can play a protective role against LPS-induced acute lung injury. 3. Peimisine has the protective effect on the experimental hepatic fibrosis formation, the possible mechanisms are associated with inhibiting fibrogenesis and fibrosis accumulation, and decreasing lipid peroxidation. 4. Peimisine can inhibit angiotensin I converting enzyme activity in a dose-dependent manner, displaying 5 % inhibitory concentration values of 526.5 microM, thus, it may have antihypertensive action. |
| Targets(IC50) | Apoptosis,RAAS,AChR,Angiotensin-converting Enzyme (ACE) |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 9 mg/mL (21.05 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: 1 mg/mL (2.34 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 | 2.3385 mL | 11.6926 mL | 23.3852 mL |
| 5 mM | 0.4677 mL | 2.3385 mL | 4.677 mL |
| 10 mM | 0.2339 mL | 1.1693 mL | 2.3385 mL |
| 50 mM | 0.0468 mL | 0.2339 mL | 0.4677 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

Liu J , Xu X F , Guo C Y , et al. Protection of peimisine on hepatic fibrosis of rats induced by CCl₄[J]. Chinese Traditional & Herbal Drugs, 2013, 44(11):1455-1459.

Shim K S, Gu D R, Hwang Y H, et al. Water Extract of Fritillariae thunbergii Bulbus Inhibits RANKL-Mediated Osteoclastogenesis and Ovariectomy-Induced Trabecular Bone Loss. Molecules. 2022, 27(1): 169.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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