

Praeruptorin C

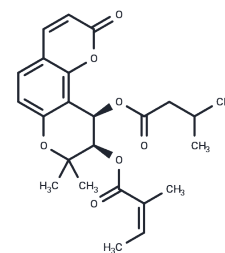
Chemical Properties

CAS No. : 72463-77-5

Formula: C₂₄H₂₈O₇

Molecular Weight: 428.47

Storage: Keep away from moisture, Keep away from direct sunlight
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

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|---------------|--|
| Description | 1. Praeruptorin C has been widely used as an antioxidant and a calcium antagonist to treat diseases. 2. Praeruptorin C partially protects cortical neurons by inhibiting the expression of GluN2B-containing NMDA receptors and regulating the Bcl-2 family. 3. Praeruptorin C can reduce vascular hypertrophy in isolated rat hypertrophied smooth muscle cells, and this is associated with improvement of smooth muscle cells [Ca ²⁺] _i level, nitric oxide content and cellular signal transduction of protein kinase C and Gi. |
| Targets(IC50) | Antioxidant, Calcium Channel |

Solubility Information

| | |
|---------------------|---|
| Solubility | Pyridine, Methanol, etc.: Soluble, Ethanol: Soluble, DMSO: 78 mg/mL (182.04 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+90% Corn Oil: 3.3 mg/mL (7.7 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 | 2.3339 mL | 11.6694 mL | 23.3389 mL |
| 5 mM | 0.4668 mL | 2.3339 mL | 4.6678 mL |
| 10 mM | 0.2334 mL | 1.1669 mL | 2.3339 mL |
| 50 mM | 0.0467 mL | 0.2334 mL | 0.4668 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

Yang L , Li X B , Yang Q , et al. The neuroprotective effect of praeuroptin C against NMDA-induced apoptosis through down-regulating of GluN2B-containing NMDA receptors[J]. Toxicology in Vitro, 2013, 27(2):908-914.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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