

Isorhoifolin

Chemical Properties

| | |
|-------------------|--|
| CAS No.: | 552-57-8 |
| Formula: | C ₂₇ H ₃₀ O ₁₄ |
| Molecular Weight: | 578.5 |
| Appearance: | N/A |
| Storage: | 0-4°C for short term (days to weeks), or -20°C for long term (months). |

Biological Description

| | |
|----------------------------|---|
| Description | Isorhoifolin and vicanin II are main compounds of ethyl acetate fraction (EAcF) obtained from <i>Erythrina velutina</i> leaves, EAcF increases the cardiac contractile force by increasing the I-type calcium current and activating the adrenergic receptor pathway. |
| Targets(IC ₅₀) | Adrenergic Receptor: None |
| In vitro | From the crude ethanolic extract of the aerial parts of this plant, 23 compounds (phenylpropanoids, coumarins, flavonoids, and triterpenes) were isolated. Among these, eight compounds (salvianolic acid B, caftaric acid, cichoric acid, umbelliferone, aesculetin, apigenin-7-O-β-D-glucuronopyranoside, Isorhoifolin, and luteolin-4'-O-β-D-glucopyranoside) were detected for the first time in the genus <i>Dracocephalum</i> . Their structures were elucidated based on chemical and spectral data. The levels of most of the compounds detected in the cultivated sample were close to that of the wild sample, indicating the reproducibility of the biologically active compounds of <i>D. palmatum</i> through cultivation[1] |

Solubility Information

| | |
|------------|---|
| Solubility | < 1 mg/ml refers to the product slightly soluble or insoluble |
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Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|----------|-----------|
| 1 mM | 1.729 mL | 8.643 mL | 17.286 mL |
| 5 mM | 0.346 mL | 1.729 mL | 3.457 mL |
| 10 mM | 0.173 mL | 0.864 mL | 1.729 mL |
| 50 mM | 0.035 mL | 0.173 mL | 0.346 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Chemical composition and antioxidant activity of *Dracocephalum palmatum* Stephan, a medicinal plant used by the North-Yakutian nomads. *Molecules*. 2013 Nov 14;18(11):14105-21.

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