

Isopteleine

Chemical Properties

| | |
|-------------------|--|
| CAS No.: | 2181-84-2 |
| Formula: | C ₁₃ H ₁₁ NO ₃ |
| Molecular Weight: | 229.23 |
| Appearance: | N/A |
| Storage: | 0-4°C for short term (days to weeks), or -20°C for long term (months). |

Biological Description

| | |
|----------------------------|---|
| Description | Isopteleine shows weak cytotoxic activities against human breast cancer cells (MCF7). |
| Targets(IC ₅₀) | Others: None |
| In vitro | To investigate the quinoline alkaloids from the roots of <i>Dictamnus angustifolius</i> G.Don ex Sweet (Rutaceae). METHODS AND RESULTS:The quinoline alkaloids were isolated by various column chromatographic methods and their structures were elucidated on the basis of spectral analysis. A new quinoline alkaloid, 5-methoxyrobustine (1), along with five known quinoline alkaloids were obtained, and their structures were identified as dictamnine (2), robustine (3), Isopteleine (4), γ-fagarine (5), and skimmianine (6). Cytotoxicity testing of these alkaloids showed that all of them had weak cytotoxic activities against human breast cancer cells (MCF7). CONCLUSIONS:Compound 1 is a new quinoline alkaloid. Alkaloid 3 showed stronger anti-proliferation effect than the other alkaloids. |

Solubility Information

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

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|-----------|-----------|
| 1 mM | 4.362 mL | 21.812 mL | 43.624 mL |
| 5 mM | 0.872 mL | 4.362 mL | 8.725 mL |
| 10 mM | 0.436 mL | 2.181 mL | 4.362 mL |
| 50 mM | 0.087 mL | 0.436 mL | 0.872 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. A new quinoline alkaloid from the roots of *Dictamnus angustifolius*. Chin J Nat Med. 2014 Mar;12(3):222-4.

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