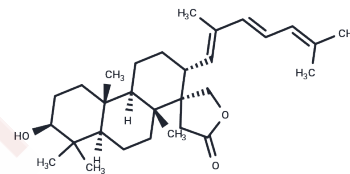


Ebelin lactone

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 3649-76-1 |
| Formula: | C ₃₀ H ₄₆ O ₃ |
| Molecular Weight: | 454.68 |
| 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 | Ebelin lactone is a triterpenoid saponogenin derived from the acid hydrolysis of active saponins (such as bacoside A) found in <i>Bacopa monnieri</i> (Brahmi) and <i>Ziziphus jujuba</i> . Ebelin lactone has been investigated in phytochemical and neuropharmacology-related biochemical research contexts focusing on its formation as a saponin-derived aglycone and its stability and distribution behavior in biological systems. Ebelin lactone is also studied in central nervous system-related receptor interaction models, including systems involving serotonin receptor subtypes such as the 5-HT _{2A} serotonin receptor, for evaluating ligand-receptor binding characteristics and structure-activity relationships relevant to cognitive function-associated signaling pathways in experimental research settings. |
| Targets(IC ₅₀) | 5-HT Receptor |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 8 mg/mL (17.59 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.1993 mL | 10.9967 mL | 21.9935 mL |
| 5 mM | 0.4399 mL | 2.1993 mL | 4.3987 mL |
| 10 mM | 0.2199 mL | 1.0997 mL | 2.1993 mL |
| 50 mM | 0.044 mL | 0.2199 mL | 0.4399 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

Ken-Ichi Kawai, et al. A new sapogenin in the saponins of Zizyphus jujuba, Hovenia dulcis and Bacopa monniera. Phytochemistry Volume 13, Issue 12, December 1974, Pages 2829-2832

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