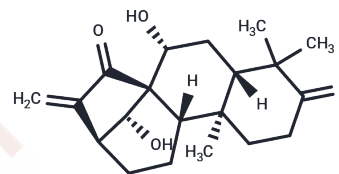


Glaucocalyxin A

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 79498-31-0 |
| Formula: | C ₂₀ H ₂₈ O ₄ |
| Molecular Weight: | 332.43 |
| Appearance: | no data available |
| Storage: | keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year |



Biological Description

| | |
|---------------|---|
| Description | 1. Glaucocalyxin A (Leukamenin F)-SBE- β -CD could be useful with a better solubility and sustained function in drug delivery. 2. Glaucocalyxin A activates caspase-3, decreases BAD phosphorylation, and reduces the expression of X-linked inhibitor of apoptosis protein. 3. Glaucocalyxin A inhibits Akt phosphorylation, suppresses proliferation, and promotes apoptosis in a dose-dependent manner, but not in normal glial cells. 4. Glaucocalyxin A inhibits collagen-stimulated tyrosine phosphorylation of Syk, LAT, and phospholipase Cy2, the signaling events in collagen receptor GPVI pathway. 5. Glaucocalyxin A could potentially be developed as an antiplatelet and antithrombotic agent, can inhibit platelet p-selectin secretion and integrin activation by convulxin, is a GPVI selective ligand. |
| Targets(IC50) | Apoptosis,Akt,Caspase,PI3K |

Solubility Information

| | |
|------------|--|
| Solubility | Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, DMSO: 6.88 mg/mL (20.68 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.0082 mL | 15.0408 mL | 30.0815 mL |
| 5 mM | 0.6016 mL | 3.0082 mL | 6.0163 mL |
| 10 mM | 0.3008 mL | 1.5041 mL | 3.0082 mL |
| 50 mM | 0.0602 mL | 0.3008 mL | 0.6016 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.

Reference

Xiao X , Cao W , Jiang X , et al. Glaucocalyxin A, a negative Akt regulator, specifically induces apoptosis in human brain glioblastoma U87MG cells[J].2013, 45(11):946-52.

Hou X, Xu G, Wang Z, et al. Glaucocalyxin A alleviates LPS-mediated septic shock and inflammation via inhibiting NLRP3 inflammasome activation. International Immunopharmacology. 2020, 81: 106271

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Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481