

Hypoglycemic agent 3

Chemical Properties

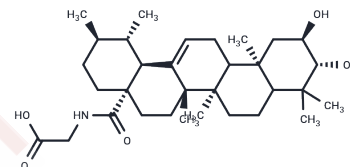
CAS No. :

Formula: C32H51NO5

Molecular Weight: 529.751

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 | Compound H26, a derivative of corosolic acid, functions as Hypoglycemic agent 3. It exhibits lipid-lowering and significant blood glucose-reducing properties, making it a potential hypoglycemic drug. Hypoglycemic agent 3 targets MCCC1 to mitigate insulin resistance, and may be useful in researching type 2 diabetes. |
| Targets(IC50) | NF-κB,Akt,PI3K |
| In vitro | Hypoglycemic agent 3 (Compound H26) shows no significant cytotoxicity in HepG2 cells at concentrations of 40-320 μM over 24 hours [1]. At 20-40 μM, it primarily inhibits insulin resistance by increasing MCCC1 in HepG2 cells [1]. At a concentration of 20 μM for 1 hour, it significantly suppresses the glucosamine-induced (18 mM; 18 h) increase in gluconeogenesis in these cells [1]. Additionally, at concentrations ranging from 2.5-20 μM for 1 hour, it activates the PI3K-AKT pathway and inhibits the NF-κB signaling pathway in HepG2 cells [1]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.8877 mL | 9.4384 mL | 18.8768 mL |
| 5 mM | 0.3775 mL | 1.8877 mL | 3.7754 mL |
| 10 mM | 0.1888 mL | 0.9438 mL | 1.8877 mL |
| 50 mM | 0.0378 mL | 0.1888 mL | 0.3775 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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