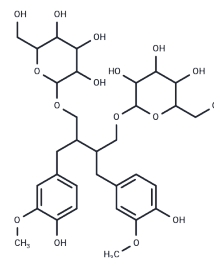


Secoisolariciresinol diglucoside

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 158932-33-3 |
| Formula: | C32H46O16 |
| Molecular Weight: | 686.704 |
| Storage: | Keep away from direct sunlight, Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |



Biological Description

| | |
|---------------|--|
| Description | Secoisolariciresinol diglucoside (LGM2605) was cytoprotective in an in vitro model of iron overload-induced redox-inflammatory damage. Secoisolariciresinol diglucoside (25 mg/kg b.w.) exerts the antihyperglycemic effect by preventing the liver from peroxidation damage through inhibition of ROS level mediated increased level of enzymatic and non-enzymatic antioxidants. |
| Targets(IC50) | ROS |

Solubility Information

| | |
|---------------------|---|
| Solubility | Ethanol: 91.00 mg/mL (132.52 mM), Sonication is recommended. DMSO: 125.00 mg/mL (182.03 mM), Sonication is recommended. Pyridine, Methanol: Soluble, H2O: 50.00 mg/mL (72.81 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+90% Saline: 10 mg/mL (14.56 mM), Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4.00 mg/mL (5.82 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.4562 mL | 7.2812 mL | 14.5624 mL |
| 5 mM | 0.2912 mL | 1.4562 mL | 2.9125 mL |
| 10 mM | 0.1456 mL | 0.7281 mL | 1.4562 mL |
| 50 mM | 0.0291 mL | 0.1456 mL | 0.2912 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

Tao YL, et al. Appl Microbiol Biotechnol. 2014 Mar;98(6):2519-31.

Puukila S, et al. PLoS One. 2015 Mar 30;10(3):e0122852.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481