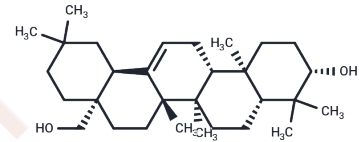


Erythrodiol

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 545-48-2 |
| Formula: | C ₃₀ H ₅₀ O ₂ |
| Molecular Weight: | 442.72 |
| 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 | Erythrodiol, an olive oil component, promotes Cholesterol efflux (ChE) by selectively inhibiting the degradation of ABCA1 protein. |
| Targets(IC50) | Endogenous Metabolite, ABC Transporter |
| In vitro | Erythrodiol (1-15 μM; 24 hours) increases ABCA1 protein levels in a concentration-dependent manner, achieving significant effects at 10 and 15 μM. |
| Cell Research | Cell Line: THP-1 macrophage cells. Concentration: 1 μM, 2.5 μM, 5 μM, 10 μM, and 15 μM. Incubation Time: 24 hours |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 6.3 mg/mL (14.23 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.2588 mL | 11.2938 mL | 22.5876 mL |
| 5 mM | 0.4518 mL | 2.2588 mL | 4.5175 mL |
| 10 mM | 0.2259 mL | 1.1294 mL | 2.2588 mL |
| 50 mM | 0.0452 mL | 0.2259 mL | 0.4518 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

Wang L, et al. Erythrodiol, an Olive Oil Constituent, Increases the Half-Life of ABCA1 and Enhances Cholesterol Efflux from THP-1-Derived Macrophages. Front Pharmacol. 2017 Jun 13;8:375.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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