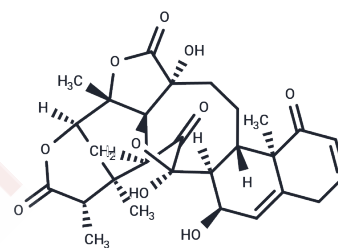


Physalin O

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 120849-18-5 |
| Formula: | C ₂₈ H ₃₂ O ₁₀ |
| Molecular Weight: | 528.55 |
| Storage: | Keep away from moisture, Store at low temperature 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 | Physalin O, a physalin compound isolated from <i>Physalis angulata</i> , exhibits cytotoxicity against Hep G2 and MCF-7 cancer cells (IC ₅₀ values of 31.1 and 11.4 μM, respectively). This compound inhibits nitric oxide (NO) production and demonstrates anti-inflammatory activity. |
| Targets(IC ₅₀) | NO Synthase |
| In vitro | Physalin O is cytotoxic to Hep G2 and MCF-7 cancer cells with IC ₅₀ values of 31.1 and 11.4 μM, respectively. [1] |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.892 mL | 9.4598 mL | 18.9197 mL |
| 5 mM | 0.3784 mL | 1.892 mL | 3.7839 mL |
| 10 mM | 0.1892 mL | 0.946 mL | 1.892 mL |
| 50 mM | 0.0378 mL | 0.1892 mL | 0.3784 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

Kuo PC, et al. Physanolide A, a novel skeleton steroid, and other cytotoxic principles from *Physalis angulata*. *Org Lett*. 2006 Jul 6;8(14):2953-6.

Ji L, et al. Physalins with anti-inflammatory activity are present in *Physalis alkekengi* var. *franchetii* and can function as Michael reaction acceptors. *Steroids*. 2012 Apr;77(5):441-7.

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