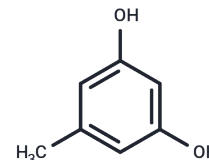


5-Methylresorcinol monohydrate

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 6153-39-5 |
| Formula: | C7H10O3 |
| Molecular Weight: | 142.15 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA. |

H₂O

Biological Description

| | |
|---------------|---|
| Description | 5-Methylresorcinol monohydrate (Orcinol monohydrate) serves as a tyrosinase inhibitor and demonstrates cytotoxic properties. Additionally, it is an orally active anxiolytic agent that can cross the blood-brain barrier [1] [2]. |
| Targets(IC50) | Tyrosinase |
| In vitro | 5-Methylresorcinol monohydrate (Orcinol monohydrate), administered at concentrations of 100, 200, and 500 µM over periods of 24 and 72 hours, exhibited cytotoxic effects on B16 and Hs68 cell lines. According to the Cell Cytotoxicity Assay, it resulted in an inhibition rate of 101.7% in Hs68 cells at 24 hours and 104.4% in B16 cells at 72 hours. |
| In vivo | 5-Methylresorcinol monohydrate, administered orally at doses of 2.5 and 5 mg/kg, exhibits anti-anxiety properties without producing sedation [2]. In studies using male CD-1 mice weighing 18-22 g [2], this compound increased both the duration and frequency of open arm entries in the elevated plus-maze test, as well as the number of head-dips in the hole-board test. Importantly, it did not significantly alter the locomotor activity in the open-field test. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 7.0348 mL | 35.1741 mL | 70.3482 mL |
| 5 mM | 1.407 mL | 7.0348 mL | 14.0696 mL |
| 10 mM | 0.7035 mL | 3.5174 mL | 7.0348 mL |
| 50 mM | 0.1407 mL | 0.7035 mL | 1.407 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

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

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