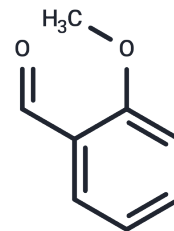


2-Methoxybenzaldehyde

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 135-02-4 |
| Formula: | C ₈ H ₈ O ₂ |
| Molecular Weight: | 136.15 |
| 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 | 2-Methoxybenzaldehyde (o-Anisaldehyde) (o-Anisaldehyde), obtained from cinnamon essential oil (CEO), exhibits antibacterial and antifungal properties [1]. |
| Targets(IC50) | Antibacterial,Antifungal |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 6.88 mg/mL (50.53 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (7.34 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 | 7.3448 mL | 36.7242 mL | 73.4484 mL |
| 5 mM | 1.469 mL | 7.3448 mL | 14.6897 mL |
| 10 mM | 0.7345 mL | 3.6724 mL | 7.3448 mL |
| 50 mM | 0.1469 mL | 0.7345 mL | 1.469 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

Zhaoxiang Huang, et al. Synergistic effects of cinnamaldehyde and cinnamic acid in cinnamon essential oil against *S. pullorum*. *Industrial Crops and Products*, 2021-02-03.

Sheikh Shreaz, et al. Interesting anticandidal effects of anisic aldehydes on growth and proton-pumping-ATPase-targeted activity. *Microb Pathog*. 2011 Oct;51(4):277-84.

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