

3-Hydroxy-4-methylbenzoic acid

Chemical Properties

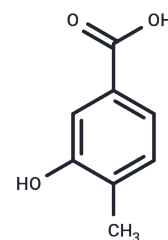
CAS No. : 586-30-1

Formula: C₈H₈O₃

Molecular Weight: 152.15

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 | 3-Hydroxy-4-methylbenzoic acid is a benzoic acid derivative widely used in biochemical experiments and drug synthesis research. |
| Targets(IC50) | Others |
| In vitro | Fresh corms of <i>Urginea sanguinea</i> produce stigmaterol, phloroglucinol, phloroglucinol 1-β-D-glucopyranoside (phlorin), scillaren A, a novel compound 5-α-4,5-dihydrochloran A (1), salicylic acid, and 3-Hydroxy-4-methylbenzoic acid. Salicylic acid and 3-Hydroxy-4-methylbenzoic acid showed weak antimicrobial activity. [1] |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 80 mg/mL (525.8 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: 5 mg/mL (32.86 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 | 6.5725 mL | 32.8623 mL | 65.7246 mL |
| 5 mM | 1.3145 mL | 6.5725 mL | 13.1449 mL |
| 10 mM | 0.6572 mL | 3.2862 mL | 6.5725 mL |
| 50 mM | 0.1314 mL | 0.6572 mL | 1.3145 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

Majinda RR, et al. Bufadienolides and other constituents of *Urginea sanguinea*. *Planta Med.* 1997 Apr;63(2):188-90.

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