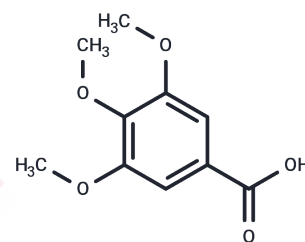


## 3,4,5-Trimethoxybenzoic acid

### Chemical Properties

|                   |  |
|-------------------|--|
| CAS No. :         | 118-41-2   |
| Formula:          | C <sub>10</sub> H <sub>12</sub> O <sub>5</sub>           |
| Molecular Weight: | 212.2  |
| Appearance:       | no data available  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year |



### Biological Description

|                            |  |
|----------------------------|--|
| Description                | 3,4,5-Trimethoxybenzoic acid (Gallic acid trimethyl ether) are potent antioxidants and inhibitor of cytokine production. It can ameliorate chronic stress-induced various behavioral and biochemical alterations in mice. It also exerts hepatoprotective effects in CCl <sub>4</sub> -induced rats, specifically by modulating oxidative-nitrosative stress and inflammation. |
| Targets(IC <sub>50</sub> ) | Antioxidant  |

### Solubility Information

|            |   |
|------------|---|
| Solubility | DMSO: 50 mg/mL (235.63 mM), Sonication is recommended.<br>Ethanol: Soluble,<br>( $< 1$ mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

### Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 4.7125 mL | 23.5627 mL | 47.1254 mL |
| 5 mM  | 0.9425 mL | 4.7125 mL  | 9.4251 mL  |
| 10 mM | 0.4713 mL | 2.3563 mL  | 4.7125 mL  |
| 50 mM | 0.0943 mL | 0.4713 mL  | 0.9425 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.

### Reference

- Dhingra MS, et al. Effect of trimethylgallic acid esters against chronic stress-induced anxiety-like behavior and oxidative stress in mice. *Pharmacol Rep.* 2014 Aug;66(4):606-12.
- Sachdeva M, Hepatoprotective effect of trimethylgallic acid esters against carbon tetrachloride-induced liver injury in rats. *Indian J Exp Biol.* 2015 Dec;53(12):803-9.
- Douthel J, Paschen W. *Pharmacol Toxicol.* 1999 Aug;85(2):85-91.

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Tel:781-999-4286    E\_mail:info@targetmol.com    Address:36 Washington Street,Wellesley Hills,MA 02481