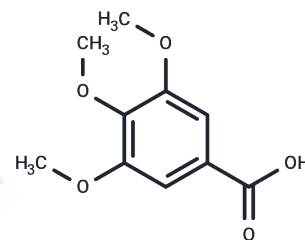


3,4,5-Trimethoxybenzoic acid

Chemical Properties

CAS No. :	118-41-2
Formula:	C ₁₀ H ₁₂ O ₅
Molecular Weight:	212.2
Storage:	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	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 CCL4-induced rats, specifically by modulating oxidative-nitrosative stress and inflammation.
Targets(IC50)	Antioxidant,Antibacterial

Solubility Information

Solubility	DMSO: 50 mg/mL (235.63 mM),Sonication is recommended. Ethanol: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (9.43 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	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.

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

- 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.
- Doutheil J, Paschen W. *Pharmacol Toxicol.* 1999 Aug;85(2):85-91.

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