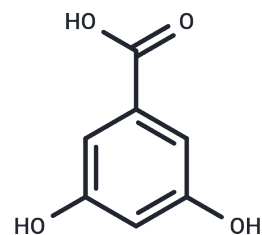


3,5-Dihydroxybenzoic acid

Chemical Properties

CAS No. :	99-10-5
Formula:	C7H6O4
Molecular Weight:	154.12
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	3,5-Dihydroxybenzoic acid is a metabolite of alkylresorcinols in human urine and plasma, a potential biomarker of food intake such as beer, nuts, peanuts, and legumes, and a selective hydroxycarboxylic acid 1 (HCA1) inhibitor.
Targets(IC50)	Endogenous Metabolite, Tyrosinase, HCAR

Solubility Information

Solubility	H2O: 84 mg/mL (545.03 mM), Sonication is recommended. DMSO: 55 mg/mL (356.86 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: 2 mg/mL (12.98 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	6.4885 mL	32.4423 mL	64.8845 mL
5 mM	1.2977 mL	6.4885 mL	12.9769 mL
10 mM	0.6488 mL	3.2442 mL	6.4885 mL
50 mM	0.1298 mL	0.6488 mL	1.2977 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

Anderson JW, et al. Whole grains protect against atherosclerotic cardiovascular disease. Proc Nutr Soc. 2003 Feb; 62(1):135-42.

Ross AB, et al. Alkylresorcinols in cereals and cereal products. J Agric Food Chem. 2003 Jul 2;51(14):4111-8.

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