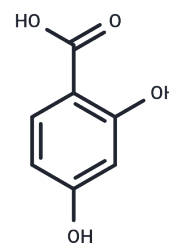


2,4-Dihydroxybenzoic acid

Chemical Properties

CAS No. :	89-86-1
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	2,4-Dihydroxybenzoic acid is found in alcoholic beverages. 2, 4-Dihydroxybenzoic acid is a food flavour ingredient and flavour modifie.
Targets(IC50)	Endogenous Metabolite, ROS

Solubility Information

Solubility	DMSO: 20 mg/mL (129.77 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

Widmeier E, Airik M, Hugo H, et al. Treatment with 2,4-Dihydroxybenzoic Acid Prevents FSGS Progression and Renal Fibrosis in Podocyte-Specific Coq6 Knockout Mice[J]. J Am Soc Nephrol. 2019 Feb 8. pii: ASN.2018060625.

Seeram N P, Bourquin L D, Nair M G. Degradation Products of Cyanidin Glycosides from Tart Cherries and Their Bioactivities[J]. Journal of Agricultural and Food Chemistry, 2001, 49(10):4924-4929.

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