

Hydroxytyrosol

Chemical Properties

CAS No. : 10597-60-1

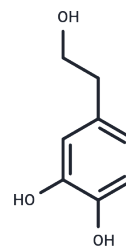
Formula: C₈H₁₀O₃

Molecular Weight: 154.16

Store at low temperature

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Hydroxytyrosol (2-(3,4-Di-hydroxyphenyl)-ethanol) is an active ingredient extracted from the olive. It is one of the most efficient and secure antioxidants and can be used in the cardiovascular drugs.
Targets(IC50)	Endogenous Metabolite,Antibacterial,Antifungal

Solubility Information

Solubility	DMSO: 260 mg/mL (1686.56 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 (32.43 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	6.4868 mL	32.4338 mL	64.8677 mL
5 mM	1.2974 mL	6.4868 mL	12.9735 mL
10 mM	0.6487 mL	3.2434 mL	6.4868 mL
50 mM	0.1297 mL	0.6487 mL	1.2974 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

Yunden J, et al. Chem Res Toxicol. 2009 May; 22(5): 835-841.

Zou X, Zeng M, Zheng Y, et al. Comparative Study of Hydroxytyrosol Acetate and Hydroxytyrosol in Activating Phase II Enzymes. Antioxidants. 2023, 12(10): 1834.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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