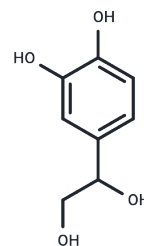


4-(1,2-Dihydroxyethyl)benzene-1,2-diol

Chemical Properties

CAS No. :	28822-73-3
Formula:	C ₈ H ₁₀ O ₄
Molecular Weight:	170.16
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	4-(1,2-Dihydroxyethyl)benzene-1,2-diol is a phenolic derivative with redox activity that can act as an oxidizing agent. 4-(1,2-Dihydroxyethyl)benzene-1,2-diol downregulates the expression of pro-inflammatory enzymes (iNOS, COX-2) and inhibits the degradation of I κ B α , and is commonly used in research on inflammation-related diseases.
Targets(IC50)	NOS,COX,I κ B/IKK
In vitro	4-(1,2-Dihydroxyethyl)benzene-1,2-diol showed antioxidant activity, and IC ₅₀ in DPPH radical scavenging test was 1.55 μ M[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (587.68 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.8768 mL	29.3841 mL	58.7682 mL
5 mM	1.1754 mL	5.8768 mL	11.7536 mL
10 mM	0.5877 mL	2.9384 mL	5.8768 mL
50 mM	0.1175 mL	0.5877 mL	1.1754 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

Aparicio-Soto M, et al. Naturally occurring hydroxytyrosol derivatives: hydroxytyrosyl acetate and 3,4-dihydroxyphenylglycol modulate inflammatory response in murine peritoneal macrophages. Potential utility as new dietary supplements. *J Agric Food Chem*. 2015 Jan 28;63(3):836-46.

Arando A, et al. Effect of different olive oil-derived antioxidants (hydroxytyrosol and 3,4-dihydroxyphenylglycol) on the quality of frozen-thawed ram sperm. *Cryobiology*. 2019 Feb;86:33-39.

Sánchez-Fidalgo S, et al. Effects of dietary virgin olive oil polyphenols: hydroxytyrosyl acetate and 3, 4-dihydroxyphenylglycol on DSS-induced acute colitis in mice. *J Nutr Biochem*. 2015 May;26(5):513-20.

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