

Hydroxyphenyllactic acid

Chemical Properties

CAS No. :	306-23-0
Formula:	C ₉ H ₁₀ O ₄
Molecular Weight:	182.173
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	Hydroxyphenyllactic acid is an antifungal metabolite, fungi such as Lactobacillus sp. SK007.
Targets(IC50)	Endogenous Metabolite,Antifungal

Solubility Information

Solubility	1M Tris-HCl, pH7.5: 9.00 mg/mL (49.40 mM),Sonication is recommended. DMSO: 122.50 mg/mL (672.44 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: 4.00 mg/mL (21.96 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	5.4894 mL	27.4469 mL	54.8938 mL
5 mM	1.0979 mL	5.4894 mL	10.9788 mL
10 mM	0.5489 mL	2.7447 mL	5.4894 mL
50 mM	0.1098 mL	0.5489 mL	1.0979 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

Mu W, et al. Production of 4-hydroxyphenyllactic acid by Lactobacillus sp. SK007 fermentation. J Biosci Bioeng. 2010 Apr;109(4):369-71.

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