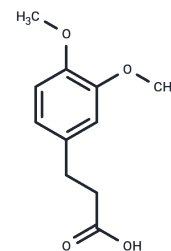


3-(3,4-Dimethoxyphenyl)propanoic acid

Chemical Properties

CAS No. :	2107-70-2
Formula:	C ₁₁ H ₁₄ O ₄
Molecular Weight:	210.23
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-(3,4-Dimethoxyphenyl)propanoic acid (3,4-Dimethoxyhydrocinnamic acid) is an orally active short-chain fatty acid (SCFAs) that promotes γ -globin gene expression and erythropoiesis in vivo, making it useful in treating beta hemoglobinopathies and other anemias.
Targets(IC50)	Others,Aromatase

Solubility Information

Solubility	DMSO: 50 mg/mL (237.83 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 (9.51 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	4.7567 mL	23.7835 mL	47.567 mL
5 mM	0.9513 mL	4.7567 mL	9.5134 mL
10 mM	0.4757 mL	2.3783 mL	4.7567 mL
50 mM	0.0951 mL	0.4757 mL	0.9513 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

Overington JP, et al. Nat Rev Drug Discov. 2006 Dec;5(12):993-6.

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