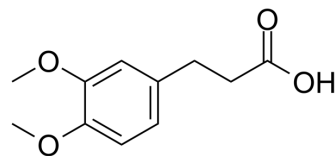


3-(3,4-Dimethoxyphenyl)propanoic acid

Cat. No.:	HY-Y1620		
CAS No.:	2107-70-2		
Molecular Formula:	C ₁₁ H ₁₄ O ₄		
Molecular Weight:	210.23		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (475.67 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions	1 mM	4.7567 mL	23.7835 mL
		5 mM	0.9513 mL	4.7567 mL
		10 mM	0.4757 mL	2.3783 mL
	Please refer to the solubility information to select the appropriate solvent.			
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (11.89 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.89 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.89 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	3-(3,4-Dimethoxyphenyl)propanoic acid is an orally active short-chain fatty acids (SCFAs). 3-(3,4-Dimethoxyphenyl)propanoic acid stimulates γ globin gene expression, erythropoiesis in vivo and is used for the β hemoglobinopathies and other anemias ^[1] .
In Vivo	3-(3,4-Dimethoxyphenyl)propanoic acid (50, 150 mg/kg of iv or 50, 150, 200 mg/kg of orally) achieves concentrations significantly higher than targeted plasma levels for several hours after single 50 to 150 mg/kg doses ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Pace BS, et al. Short-chain fatty acid derivatives induce fetal globin expression and erythropoiesis in vivo. *lood*. 2002 Dec 15;100(13):4640-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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