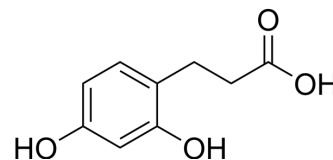


3-(2,4-Dihydroxyphenyl)propanoic acid

Cat. No.:	HY-N1750
CAS No.:	5631-68-5
Molecular Formula:	C ₉ H ₁₀ O ₄
Molecular Weight:	182.17
Target:	Tyrosinase; Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (1372.34 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (11.42 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (11.42 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (11.42 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	3-(2,4-Dihydroxyphenyl)propanoic acid (DPPacid) is a potent and competitive tyrosinase inhibitor, inhibits L-Tyrosine and DL-DOPA with an IC ₅₀ and a K _i of 3.02 μM and 11.5 μM, respectively ^[1] .
IC ₅₀ & Target	Human Endogenous Metabolite

REFERENCES

[1]. Shimizu K, et al. Novel vitamin E derivative with 4-substituted resorcinol moiety has both antioxidant and tyrosinase inhibitory properties. *Lipids*. 2001 Dec;36(12):1321-6.

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

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