Malic acid

Cat. No.:	HY-Y1311				
CAS No.:	6915-15-7				
Molecular Formula:	$C_4H_6O_5$				
Molecular Weight:	134.09				
Target:	Endogenous Metabolite				
Pathway:	Metabolic Enzyme/Protease				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

SOLVENT & SOLUBILITY

In Vitro	0, 1	DMSO : 100 mg/mL (745.77 mM; Need ultrasonic) H ₂ O : 100 mg/mL (745.77 mM; Need ultrasonic)						
		Solvent Mass Concentration	1 mg	5 mg	10 mg			
	Preparing Stock Solutions	1 mM	7.4577 mL	37.2884 mL	74.5768 mL			
		5 mM	1.4915 mL	7.4577 mL	14.9154 mL			
		10 mM	0.7458 mL	3.7288 mL	7.4577 mL			
	Please refer to the sol	lubility information to select the app	propriate solvent.					
In Vivo		1. Add each solvent one by one: PBS Solubility: 110 mg/mL (820.34 mM); Clear solution; Need ultrasonic						
		2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (15.51 mM); Clear solution						
		3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (15.51 mM); Clear solution						
		 Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (15.51 mM); Clear solution 						

BIOLOGICAL ACTIV	ТТҮ
Description	Malic acid (Hydroxybutanedioic acid) is a dicarboxylic acid that is naturally found in fruits such as apples and pears. It plays a role in many sour or tart foods.
IC ₅₀ & Target	Human Endogenous Metabolite

Product Data Sheet

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CUSTOMER VALIDATION

• Food Chem. 2022: 134807.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Dai Z, et al. Current advance in biological production of malic acid using wild type and metabolic engineered strains. Bioresour Technol. 2018 Jun;258:345-353.

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

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