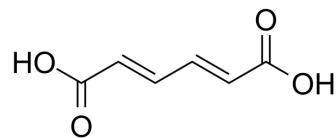


trans-trans-Muconic acid

Cat. No.:	HY-113247		
CAS No.:	3588-17-8		
Molecular Formula:	C ₆ H ₆ O ₄		
Molecular Weight:	142.11		
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	DMSO : 33.33 mg/mL (234.54 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	7.0368 mL	35.1840 mL	70.3680 mL
		5 mM	1.4074 mL	7.0368 mL	14.0736 mL
10 mM		0.7037 mL	3.5184 mL	7.0368 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: ≥ 2.5 mg/mL (17.59 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (17.59 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	trans-trans-Muconic acid is a urinary metabolite of benzene and has been used as a biomarker of exposure to benzene in human.
IC ₅₀ & Target	Human Endogenous Metabolite

REFERENCES

[1]. Bartczak A, ET AL. Evaluation of assays for the identification and quantitation of muconic acid, a benzene metabolite in human urine. J Toxicol Environ Health. 1994

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

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