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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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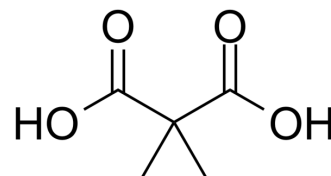
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Dimethylmalonic acid

Cat. No.:	HY-W007894		
CAS No.:	595-46-0		
Molecular Formula:	C ₅ H ₈ O ₄		
Molecular Weight:	132.11		
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 : 100 mg/mL (756.94 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	7.5694 mL	37.8472 mL	75.6945 mL
		5 mM	1.5139 mL	7.5694 mL	15.1389 mL
10 mM		0.7569 mL	3.7847 mL	7.5694 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 (18.92 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (18.92 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (18.92 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Dimethylmalonic acid is a short-chain dicarboxylic acid in human serum. Dimethylmalonic acid is also a volatile organic compound detected in alveolar breath ^[1] .
IC₅₀ & Target	Human Endogenous Metabolite

REFERENCES

[1]. David A. Evans, et al. An Improved Procedure for the Preparation of 2,2-Bis[2-[4(S)- tert-butyl-1,3-oxazoliny]]propane [(S,S)-tert-Butylbis(oxazoline)] and Derived Copper(II) Complexes. J. Org. Chem. 1998, 63, 13, 4541-4544.

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

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