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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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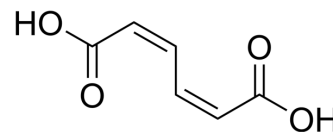
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cis,cis-Muonic acid

Cat. No.:	HY-W000800
CAS No.:	1119-72-8
Molecular Formula:	C ₆ H ₆ O ₄
Molecular Weight:	142.11
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (1759.20 mM; Need ultrasonic)					
		Solvent Concentration	Mass			
	Preparing Stock Solutions			1 mg	5 mg	10 mg
		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: ≥ 2.08 mg/mL (14.64 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (14.64 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (14.64 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	cis,cis-Muonic acid, a metabolic intermediate of Klebsiella pneumonia, can be converted to adipic acid and terephthalic acid, which are important monomers of synthetic polymers. cis,cis-Muonic acid is also a biochemical material that can be used for the production of various plastics and polymers and is particularly gaining attention as an adipic acid precursor for the synthesis of nylon-6,6 ^{[1][2]} .	
IC₅₀ & Target	Microbial Metabolite	Human Endogenous Metabolite

REFERENCES

- [1]. Jung HM, et al. Metabolic engineering of *Klebsiella pneumoniae* for the production of cis,cis-muconic acid. *Appl Microbiol Biotechnol.* 2015;99(12):5217-5225.
- [2]. Shin WS, et al. Characterization of a non-phosphotransferase system for cis,cis-muconic acid production in *Corynebacterium glutamicum*. *Biochem Biophys Res Commun.* 2018;499(2):279-284.
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Caution: Product has not been fully validated for medical applications. For research use only.

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