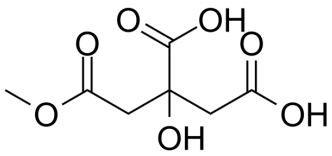
Methyl citrate

Cat. No.:	HY-N9540
CAS No.:	26163-61-1
Molecular Formula:	$C_7H_{10}O_7$
Molecular Weight:	206.15
Target:	Monoamine Oxidase
Pathway:	Neuronal Signaling
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 : 100 mg/mL (485.08 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	4.8508 mL	24.2542 mL	48.5084 mL
	5 mM	0.9702 mL	4.8508 mL	9.7017 mL
	10 mM	0.4851 mL	2.4254 mL	4.8508 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 (12.13 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (12.13 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (12.13 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Methyl citrate is a Monoamine oxidase B (MAO-B) inhibitor (IC_{50}=0.23 mM). Methyl citrate is isolated from the fruits of Opuntia ficus-indica var. saboten Makino[1].

IC_{50} & Target

MAO-B
0.23 mM (IC_{50})

In Vitro

Methyl citrate is a Monoamine oxidase B (MAO-B) inhibitor (IC_{50}=0.23 mM)[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Han YN, et al. Monoamine oxidase B inhibitors from the fruits of Opuntia ficus-indica var. saboten. Arch Pharm Res. 2001;24(1):51-54.

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

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