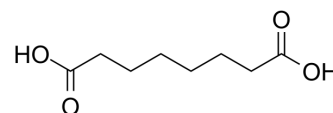


## Suberic acid

Cat. No.:	HY-W015300		
CAS No.:	505-48-6		
Molecular Formula:	C <sub>8</sub> H <sub>14</sub> O <sub>4</sub>		
Molecular Weight:	174.2		
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 (574.05 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM		5.7405 mL	28.7026 mL	57.4053 mL
		5 mM		1.1481 mL	5.7405 mL	11.4811 mL
		10 mM		0.5741 mL	2.8703 mL	5.7405 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: ≥ 3.25 mg/mL (18.66 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 3.25 mg/mL (18.66 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 3.25 mg/mL (18.66 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	Suberic acid (Octanedioic acid) is found to be associated with carnitine-acylcarnitine translocase deficiency, malonyl-CoA decarboxylase deficiency.
IC <sub>50</sub> & Target	Human Endogenous Metabolite

### REFERENCES

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[1]. Gregersen N, et al. General (medium-chain) acyl-CoA dehydrogenase deficiency (non-ketotic dicarboxylic aciduria): quantitative urinary excretion pattern of 23 biologically significant organic acids in three cases. Clin Chim Acta. 1983 Aug 15;132(2):181-91

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

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