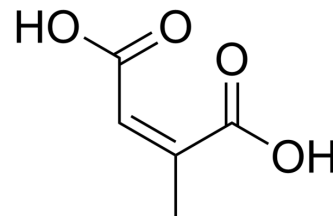


## Citraconic acid

<b>Cat. No.:</b>	HY-113298		
<b>CAS No.:</b>	498-23-7		
<b>Molecular Formula:</b>	C <sub>5</sub> H <sub>6</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	130.1		
<b>Target:</b>	Endogenous Metabolite		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	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 (768.64 mM)  
 H<sub>2</sub>O : ≥ 100 mg/mL (768.64 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		7.6864 mL	38.4320 mL	76.8639 mL
	5 mM		1.5373 mL	7.6864 mL	15.3728 mL
	10 mM		0.7686 mL	3.8432 mL	7.6864 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (19.22 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (19.22 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (19.22 mM); Clear solution

### BIOLOGICAL ACTIVITY

<b>Description</b>	Citraconic acid belongs to the class of organic compounds known as methyl-branched fatty acids.	
<b>IC<sub>50</sub> &amp; Target</b>	Human Endogenous Metabolite	Human Endogenous Metabolite

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## CUSTOMER VALIDATION

- Cell Rep. 2023 Feb 28;42(3):112145.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

[1]. Pulat M, et al. Lipase release through semi-interpenetrating polymer network hydrogels based on chitosan, acrylamide, and citraconic acid. *Artif Cells Nanomed Biotechnol.* 2014 Apr;42(2):121-7.

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

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