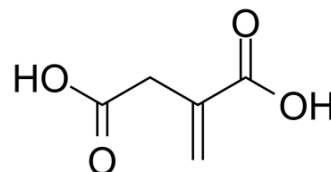


## Itaconic acid

<b>Cat. No.:</b>	HY-Y0520
<b>CAS No.:</b>	97-65-4
<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>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 27.78 mg/mL (213.53 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		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.

### BIOLOGICAL ACTIVITY

#### Description

Itaconic acid, a precursor of polymers, chemicals, and fuels, can be synthesized by many fungi. Itaconic acid also is a macrophage-specific metabolite. Itaconic acid mediates crosstalk between macrophage metabolism and peritoneal tumors [1][2].

### REFERENCES

- [1]. Zhao M, et, al. Itaconic acid production in microorganisms. *Biotechnol Lett.* 2018 Mar;40(3):455-464.
- [2]. Weiss JM, et, al. Itaconic acid mediates crosstalk between macrophage metabolism and peritoneal tumors. *J Clin Invest.* 2018 Aug 31;128(9):3794-3805.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA