

## Itaconic acid

## Chemical Properties

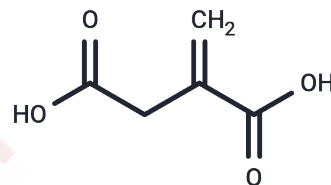
CAS No. : 97-65-4

Formula: C<sub>5</sub>H<sub>6</sub>O<sub>4</sub>

Molecular Weight: 130.1

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Itaconic acid is a precursor for the synthesis of polymers, chemicals, and fuels, and has anti-inflammatory activity. Itaconic acid can be synthesized by fungi. It is also a macrophage-specific metabolite. It mediates crosstalk between macrophage metabolism and peritoneal tumors.
Targets(IC50)	Ferroptosis, Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 237.5 mg/mL (1825.52 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.6864 mL	38.432 mL	76.864 mL
5 mM	1.5373 mL	7.6864 mL	15.3728 mL
10 mM	0.7686 mL	3.8432 mL	7.6864 mL
50 mM	0.1537 mL	0.7686 mL	1.5373 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Karadağ E, Saraydin D, Cetinkaya S, et al. In vitro swelling studies and preliminary biocompatibility evaluation of acrylamide-based hydrogels. [J]. Biomaterials, 1996, 17(1):67-70.

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