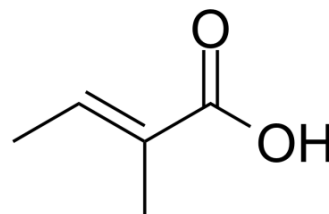


## Tiglic acid

Cat. No.:	HY-W012999		
CAS No.:	80-59-1		
Molecular Formula:	C <sub>5</sub> H <sub>8</sub> O <sub>2</sub>		
Molecular Weight:	100.12		
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 (998.80 mM; Need ultrasonic)  
 H<sub>2</sub>O : 7.69 mg/mL (76.81 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	9.9880 mL	49.9401 mL	99.8801 mL
	5 mM	1.9976 mL	9.9880 mL	19.9760 mL
	10 mM	0.9988 mL	4.9940 mL	9.9880 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 (24.97 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (24.97 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (24.97 mM); Clear solution
- Add each solvent one by one: PBS  
Solubility: 15 mg/mL (149.82 mM); Clear solution; Need ultrasonic and warming and heat to 54°C

### BIOLOGICAL ACTIVITY

#### Description

Tiglic acid is a monocarboxylic unsaturated organic acid found in croton oil and in several other natural products. Tiglic acid has a role as a plant metabolite<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

Human Endogenous Metabolite

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## REFERENCES

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[1]. ROBERT E. BUCKLES, et al. THE PREPARATION OF TIGLIC AND ANGELIC ACIDS AND ESTERS. Cite This: J. Org. Chem. 1950 15 3680-684.

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

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