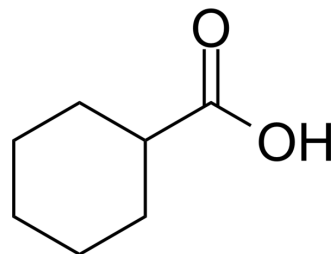


## Cyclohexanecarboxylic acid

<b>Cat. No.:</b>	HY-Y1373	
<b>CAS No.:</b>	98-89-5	
<b>Molecular Formula:</b>	C <sub>7</sub> H <sub>12</sub> O <sub>2</sub>	
<b>Molecular Weight:</b>	128.17	
<b>Target:</b>	Endogenous Metabolite	
<b>Pathway:</b>	Metabolic Enzyme/Protease	
<b>Storage:</b>	Pure form	-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 (780.21 mM; Need ultrasonic)  
H<sub>2</sub>O : 100 mg/mL (780.21 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	7.8021 mL	39.0107 mL	78.0214 mL
	5 mM	1.5604 mL	7.8021 mL	15.6043 mL
	10 mM	0.7802 mL	3.9011 mL	7.8021 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 (19.51 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (19.51 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (19.51 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Cyclohexanecarboxylic acid is a Valproate structural analogue with anticonvulsant action<sup>[1]</sup>.

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

Human Endogenous Metabolite

### REFERENCES

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[1]. Liu MJ, et al. Pharmacokinetics and pharmacodynamics of valproate analogues in rats. IV. Anticonvulsant action and neurotoxicity of octanoic acid, cyclohexanecarboxylic acid, and 1-methyl-1-cyclohexanecarboxylic acid. *Epilepsia*. 1994 Jan-Feb;35(1):234-43.

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

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