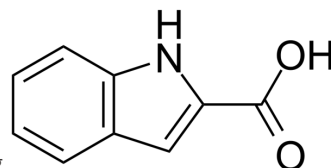


## Indole-2-carboxylic acid

<b>Cat. No.:</b>	HY-I0096		
<b>CAS No.:</b>	1477-50-5		
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>7</sub> NO <sub>2</sub>		
<b>Molecular Weight:</b>	161.16		
<b>Target:</b>	Endogenous Metabolite; iGluR		
<b>Pathway:</b>	Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel; Neuronal Signaling		
<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 (620.50 mM; Need ultrasonic)  
 H<sub>2</sub>O : < 0.1 mg/mL (ultrasonic) (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	6.2050 mL	31.0251 mL	62.0501 mL
	5 mM	1.2410 mL	6.2050 mL	12.4100 mL
	10 mM	0.6205 mL	3.1025 mL	6.2050 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 (15.51 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: ≥ 2.5 mg/mL (15.51 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 2.5 mg/mL (15.51 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Indole-2-carboxylic acid is a strong inhibitor of lipid peroxidation. Indole-2-carboxylic acid (I2CA) specifically and competitively inhibits the potentiation by glycine of NMDA-gated current<sup>[1][2]</sup>.

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

Human Endogenous Metabolite

---

## REFERENCES

---

[1]. 2-Indolecarboxylic acid.

[2]. J E Huettner, et al. Indole-2-carboxylic Acid: A Competitive Antagonist of Potentiation by Glycine at the NMDA Receptor. Science. 1989 Mar 24;243(4898):1611-3.

---

**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