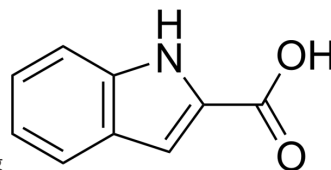


Indole-2-carboxylic acid

Cat. No.:	HY-I0096		
CAS No.:	1477-50-5		
Molecular Formula:	C ₉ H ₇ NO ₂		
Molecular Weight:	161.16		
Target:	Endogenous Metabolite; iGluR		
Pathway:	Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (620.50 mM; Need ultrasonic)
 H₂O : < 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^{[1][2]}.

IC₅₀ & Target

NMDA Receptor

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.

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