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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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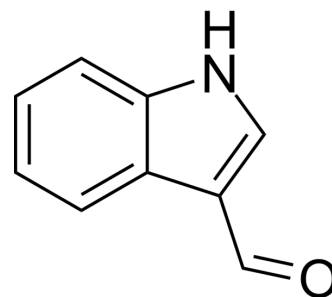
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Indole-3-carboxaldehyde

Cat. No.:	HY-W007376
CAS No.:	487-89-8
Molecular Formula:	C ₉ H ₇ NO
Molecular Weight:	145.16
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 20 mg/mL (137.78 mM; Need ultrasonic)						
	H ₂ O : < 0.1 mg/mL (insoluble)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	6.8889 mL	34.4447 mL	68.8895 mL
				5 mM	1.3778 mL	6.8889 mL	13.7779 mL
10 mM				0.6889 mL	3.4445 mL	6.8889 mL	
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2 mg/mL (13.78 mM); Clear solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2 mg/mL (13.78 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Indole-3-carboxaldehyde (3-Formylindole), a banlangen extract, is the product of the oxidative degradation of indole-3-acetic acid (IAA) by crude enzyme preparations from etiolated pea seedlings. Indole-3-carboxaldehyde is a biochemical used to prepare analogs of the indole phytoalexin cyclobassinin. Indole-3-carboxaldehyde also enhances the epithelial barrier and anti-inflammatory activity in the intestinal tract ^{[1][2]} .
IC ₅₀ & Target	Human Endogenous Metabolite
In Vitro	Indole-3-carboxaldehyde (100 nM, 12 h) increases endothelial nitric oxide synthase (eNOS) transcription levels, reduces gene expression of VCAM, CCL2, and IL6, reduces ROS levels in HUVECs ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lu Y, et al. Gut microbe-derived metabolite indole-3-carboxaldehyde alleviates atherosclerosis. *Signal Transduct Target Ther.* 2023 Oct 4;8(1):378.

[2]. Robert E. Stutz, et al. Enzymatic Formation of Indole-3-Carboxaldehyde from Indole-3-Acetic Acid. *Plant Physiol.* 1958 May; 33(3): 207–212.

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

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