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Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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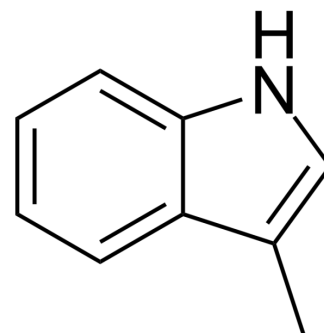
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Skatole

Cat. No.:	HY-W007355												
CAS No.:	83-34-1												
Molecular Formula:	C ₉ H ₉ N												
Molecular Weight:	131.17												
Target:	Aryl Hydrocarbon Receptor; p38 MAPK; Endogenous Metabolite; Apoptosis												
Pathway:	Immunology/Inflammation; MAPK/ERK Pathway; Metabolic Enzyme/Protease; Apoptosis												
Storage:	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td></td> <td>4°C</td> <td>2 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>6 months</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 month</td> </tr> </table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	6 months		-20°C	1 month
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 (762.37 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	7.6237 mL	38.1185 mL	76.2369 mL
		5 mM	1.5247 mL	7.6237 mL	15.2474 mL
10 mM		0.7624 mL	3.8118 mL	7.6237 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (19.06 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (19.06 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (19.06 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Skatole (3-methylindole) is a heterocyclic compound naturally found in the feces of vertebrates and can be found in certain plants. Skatole can be produced by intestinal bacteria, inducing apoptosis of intestinal epithelial cells through activating aryl hydrocarbon receptors (AhR) and p38. Skatole has been used in specific products of the perfume industry or as a flavor additive in ice cream ^{[1][2]} .		
IC₅₀ & Target	Human Endogenous	p38	Aryl hydrocarbon receptor

	Metabolite			
In Vitro	Skatole (0-1000 μ M, 0-72 h) leads to intestinal epithelial cell apoptosis in a time and dose dependent manner ^[1] . Skatole (1000 μ M) activates AhR (48 h) and p38 (30 min) significantly ^[1] . Skatole (10 μ M, 24 h) significantly reverses the suppression of Irisin on Ang II-evoked proliferation, migration, and phenotypic transformation in VSMCs ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

CUSTOMER VALIDATION

- Int J Biol Sci. 2024 Jan 1;20(2):680-700.
- Eur J Pharmacol. 2021 Oct 5;908:174356.
- bioRxiv. 2023 Jun 3.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Zgarbová E, et al. Skatole: A thin red line between its benefits and toxicity. *Biochimie*. 2023 May;208:1-12.
- [2]. Li RL, et al. Irisin attenuates vascular remodeling in hypertensive mice induced by Ang II by suppressing Ca²⁺-dependent endoplasmic reticulum stress in VSMCs. *Int J Biol Sci*. 2024 Jan 1;20(2):680-700.
- [3]. Kurata K, et al. Skatole regulates intestinal epithelial cellular functions through activating aryl hydrocarbon receptors and p38. *Biochem Biophys Res Commun*. 2019 Mar 19;510(4):649-655.

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

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