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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
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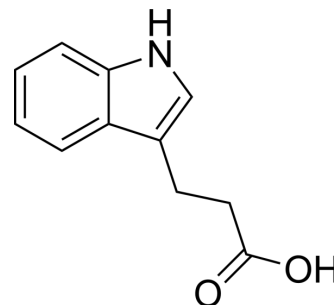
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3-Indolepropionic acid

Cat. No.:	HY-W015229		
CAS No.:	830-96-6		
Molecular Formula:	C ₁₁ H ₁₁ NO ₂		
Molecular Weight:	189.21		
Target:	Endogenous Metabolite; Reactive Oxygen Species		
Pathway:	Metabolic Enzyme/Protease; Immunology/Inflammation; NF-κB		
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 (528.51 mM)
 H₂O : 1 mg/mL (5.29 mM); ultrasonic and warming and heat to 80°C
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.2851 mL	26.4257 mL	52.8513 mL
	5 mM	1.0570 mL	5.2851 mL	10.5703 mL
	10 mM	0.5285 mL	2.6426 mL	5.2851 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 (13.21 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (13.21 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	3-Indolepropionic acid is shown to be a powerful antioxidant and has potential in the treatment for Alzheimer's disease.	
IC₅₀ & Target	Microbial Metabolite	Human Endogenous Metabolite
In Vitro	3-Indolepropionic acid is shown to be a powerful antioxidant and has potential in the treatment for Alzheimer's disease ^[1] . 3-Indolepropionic acid is a more potent scavenger of hydroxyl radicals than melatonin. Similar to melatonin but unlike other antioxidants, 3-Indolepropionic acid scavenges radicals without subsequently generating reactive and pro-oxidant intermediate compounds ^[2] . It is also suggested that indolepropionic acid, a gut microbiota-produced metabolite, is a	

potential biomarker for the development of type 2 diabetes (T2D) that may mediate its protective effect by preservation of β -cell function^[3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- ACS Chem Neurosci. 2022 Sep 21.
- Research Square Preprint. 2023 Oct 31.

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REFERENCES

- [1]. Wikoff WR, et al. Metabolomics analysis reveals large effects of gut microflora on mammalian blood metabolites. Proc Natl Acad Sci U S A. 2009 Mar 10;106(10):3698-703.
- [2]. Reiter RJ, et al. Reactive oxygen intermediates, molecular damage, and aging. Relation to melatonin. Ann N Y Acad Sci. 1998 Nov 20;854:410-24.
- [3]. de Mello VDet al. Indolepropionic acid and novel lipid metabolites are associated with a lower risk of type 2 diabetes in the Finnish Diabetes Prevention Study. Sci Rep. 2017 Apr 11;7:46337. doi: 10.1038/srep46337.
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Caution: Product has not been fully validated for medical applications. For research use only.

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