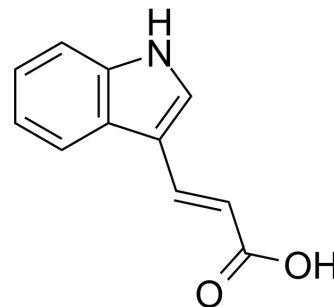


3-Indoleacrylic acid

Cat. No.:	HY-W015273		
CAS No.:	1204-06-4		
Molecular Formula:	C ₁₁ H ₉ NO ₂		
Molecular Weight:	187.19		
Target:	Reactive Oxygen Species		
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB		
Storage:	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 (534.22 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	5.3422 mL	26.7108 mL	53.4217 mL
	5 mM	1.0684 mL	5.3422 mL	10.6843 mL
	10 mM	0.5342 mL	2.6711 mL	5.3422 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 (13.36 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (13.36 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (13.36 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	3-Indoleacrylic acid is a high-efficient anti-algal agent. 3-Indoleacrylic acid increases reactive oxygen species (ROS) production, and inhibits the functions of all the nutrient assimilating genes, down-regulated ribulose-1,5-bisphosphate carboxylase/oxygenase II, and cytochrome f genes in <i>P. donghaiense</i> ^[1] .
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REFERENCES

[1]. Kokoette Effiong, et al. 3-Indoleacrylic acid from canola straw as a promising antialgal agent - Inhibition effect and mechanism on bloom-forming *Prorocentrum donghaiense*. Mar Pollut Bull. 2022 May;178:113657.

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

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