3-Indoleacrylic acid

Cat. No.:	HY-W015273	5	
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-кВ		
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)						
Preparing Stock Solutions	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		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	1. 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						
	2. 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						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (13.36 mM); Clear solution						

DIOLOGICAL ACTIV	
Description	3-Indoleacrylic acid is a high-efficient antialgal 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 P. donghaiense ^[1] .

REFERENCES

Product Data Sheet

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OH

[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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