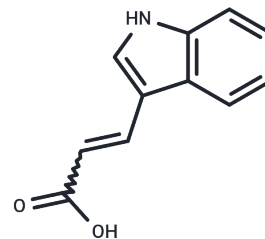


## 3-Indoleacrylic acid

## Chemical Properties

CAS No. :	1204-06-4
Formula:	C <sub>11</sub> H <sub>9</sub> NO <sub>2</sub>
Molecular Weight:	187.19
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	3-Indoleacrylic acid is a metabolite of tryptophan produced by Peptostreptococcus species. 3-Indoleacrylic acid has a beneficial effect on intestinal epithelial barrier function and mitigates inflammatory responses by immune cells.
Targets(IC50)	Reactive Oxygen Species,Endogenous Metabolite,ROS

## Solubility Information

Solubility	DMSO: 100 mg/mL (534.22 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	1% CMC-Na: < 20 mg/mL,Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (26.71 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
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
50 mM	0.1068 mL	0.5342 mL	1.0684 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Wlodarska M, et al. Indoleacrylic Acid Produced by Commensal Peptostreptococcus Species Suppresses Inflammation. Cell Host Microbe. 2017 Jul 12;22(1):25-37.e6.

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