

## 3-Indoleacrylic acid-D4

### Chemical Properties

CAS No. :

Formula: C<sub>11</sub>H<sub>9</sub>NO<sub>2</sub>

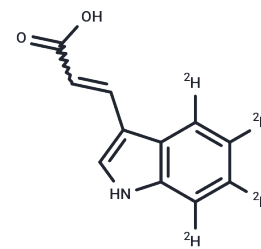
Molecular Weight: 191.22

Storage:

Keep away from direct sunlight, Keep away from moisture

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-D4 is a deuterated marker of 3-Indoleacrylic acid (T67710) used as a tracer for labeled site tracking. 3-Indoleacrylic acid is a tryptophan metabolite produced by <i>Streptococcus</i> spp. It possesses highly potent anti-algal activity and is capable of increasing reactive oxygen species (ROS) production and inhibiting nutrient assimilation genes.
Targets(IC50)	ROS

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.2296 mL	26.1479 mL	52.2958 mL
5 mM	1.0459 mL	5.2296 mL	10.4592 mL
10 mM	0.523 mL	2.6148 mL	5.2296 mL
50 mM	0.1046 mL	0.523 mL	1.0459 mL

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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