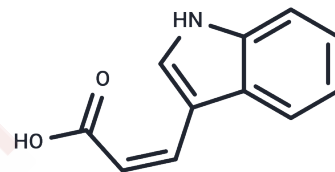


cis-3-Indoleacrylic acid

Chemical Properties

CAS No. :	29953-72-8
Formula:	C ₁₁ H ₉ NO ₂
Molecular Weight:	187.2
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	The compound cis-3-Indoleacrylic acid acts as a nematicidal agent and can be isolated from <i>Streptomyces youssoufiensis</i> YMF3.862. It functions as a V-ATPase inhibitor, reducing both the expression and enzymatic activity of V-ATPase. Additionally, cis-3-Indoleacrylic acid causes swelling in <i>Meloidogyne incognita</i> larvae and notable cracking on the cuticle surface [LC50: 16.31 µg/mL]. It also inhibits the accumulation of H ⁺ within nematodes.
Targets(IC50)	Proton pump

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.3419 mL	26.7094 mL	53.4188 mL
5 mM	1.0684 mL	5.3419 mL	10.6838 mL
10 mM	0.5342 mL	2.6709 mL	5.3419 mL
50 mM	0.1068 mL	0.5342 mL	1.0684 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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