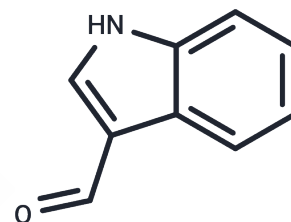


Indole-3-carboxaldehyde

Chemical Properties

CAS No. :	487-89-8
Formula:	C ₉ H ₇ NO
Molecular Weight:	145.16
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	1H-Indole-3-carboxaldehyde (3-Formylindole), also known as 3-formylindole or 3-indolealdehyde, belongs to the class of organic compounds known as indoles. Indoles are compounds containing an indole moiety, which consists of pyrrole ring fused to benzene to form 2,3-benzopyrrole. 1H-Indole-3-carboxaldehyde is an extremely weak basic (essentially neutral) compound (based on its pKa). Outside of the human body, 1H-Indole-3-carboxaldehyde has been detected, but not quantified in, several different foods, such as gram beans, brussel sprouts, cucumbers, cereals and cereal products, and white cabbages. This could make 1H-indole-3-carboxaldehyde a potential biomarker for the consumption of these foods. A heteroarene-carbaldehyde that is indole in which the hydrogen at position 3 has been replaced by a formyl group.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 55 mg/mL (378.89 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.889 mL	34.4448 mL	68.8895 mL
5 mM	1.3778 mL	6.889 mL	13.7779 mL
10 mM	0.6889 mL	3.4445 mL	6.889 mL
50 mM	0.1378 mL	0.6889 mL	1.3778 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

Robert E. Stutz, et al. Enzymatic Formation of Indole-3-Carboxaldehyde from Indole-3-Acetic Acid. *Plant Physiol.* 1958 May; 33(3): 207-212.

Shang H, Huang C, Xiao Z, et al. Gut microbiota-derived tryptophan metabolites alleviate liver injury via AhR/Nrf2 activation in pyrrolizidine alkaloids-induced sinusoidal obstruction syndrome. *Cell & Bioscience.* 2023, 13(1): 1-16.

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