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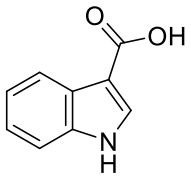
fine chemicals

PRODUCT DATA SHEET

Indole-3-carboxylic acid

Code No.: **BIA-I2373**

Pack sizes: **25 mg, 100 mg**



Synonyms : 1H-Indole-3-carboxylic acid, 3-Carboxyindole, Indol-3-carboxylic acid, Indole-β-carboxylic acid, β-Indolylcarboxylic acid

Specifications

CAS #	:	**771-50-6**
Molecular Formula	:	**$C_9H_7NO_2$**
Molecular Weight	:	**161.16**
Source	:	**Synthetic**
Appearance	:	**Light brown solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol or DMSO**

Application Notes

Indole-3-carboxylic acid is a tryptophan metabolite produced by microbiota in the human gut. Indole-3-carboxylic acid isolated from Streptomyces sp. is active against Gram positive bacteria, yeast and fungi. Indole-3-carboxylic acid induces resistance in Arabidopsis adult plants against the necrotrophic fungus Plectosphaerella cucumerina through primed callose accumulation. Indole-3-carboxylic acid is a useful skeleton for the design and synthesis of bioactive molecules.

References

1. Purification and biological evaluation of the metabolites produced by Streptomyces sp. TK-VL_333. Kavitha A. et al. Res Microbiol. 2010, 161, 335.
2. Accumulating evidences of callose priming by indole- 3- carboxylic acid in response to Plectospharella cucumerina. Pastor-Fernandez J. et al. Plant Signal Behav. 2019, 14, 1608107.
3. Design, synthesis and preliminary biological evaluation of indole-3-carboxylic acid-based skeleton of Bcl-2/Mcl-1 dual inhibitors. Liu T. et al. Bioorg Med Chem. 2017, 25, 1939.

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