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Product Information

Product ID 15213 CAS No. 700-06-1

Chemical Name

Synonym 3-Indomethanol, 3-Hydroxymethylindole, 3-Indolyl- carbinol

Formula C9H9NO Formula Wt. 147.17 Melting Point 96-98°C Purity ≥98%

Solubility Slightly soluble in cold

water.

 OH

Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
l5213	1 g	\$38.60
l5213	5 g	\$66.20
15213	25 g	\$204.00

Store Temp -20°C Ship Temp Ambient

Description Indole-3-carbinol is a glucosinolate originally found in cruciferous vegetables that exhibits anti-hyperlipidemic, anti-fibrotic, neuroprotective, anti-angiogenic, anti-metastatic, and anticancer chemotherapeutic activities. Indole-3-carbinol inhibits adipogenesis in vitro and in vivo and also suppresses adipocyte differentiation and expression of CEBP, PPARY, and triglycerides. Indole-3-carbinol also inhibits the formation of amyloid-B (AB) fibrils in cellular models of Alzheimer's disease. In cellular and animal models of nasopharyngeal carcinoma, indole-3-carbinol inhibits cell proliferation, decreases tumor growth, induces apoptosis, and decreases PI3K/Akt signaling. In other animal models, this compound induces hepatic stellate cell apoptosis, increases the Bax:Bcl-2 ratio, promotes degradation of the extracellular matrix, and prevents the development of fibrosis. Additionally, indole-3-carbinol inhibits cell migration and invasion and decreases expression of MCP-2 and signaling by ERK in breast cancer cells. In endothelial cells, this compound inhibits tube formation.

References Choi HS, Jeon HJ, Lee OH, et al. Indole-3-carbinol, a vegetable phytochemical, inhibits adipogenesis by regulating cell cycle and AMPKα signaling. Biochimie. 2014 Sep;104:127-36. PMID: 24952351.

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Morshedi D, Rezaei-Ghaleh N, Ebrahim-Habibi A, et al. Inhibition of amyloid fibrillation of lysozyme by indole derivatives-possible mechanism of action. FEBS J. 2007 Dec;274(24):6415-25. PMID: 18028426.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.