



LKT Laboratories, Inc.

Methylisoidigotin

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Product Information

Product ID M3232

CAS No. 97207-47-1

Chemical Name 1-Methyl-3,3'-biindole-2,2'(1H,1'H)-dione

Synonym Meisoindigo, 4-Methylisoidigotin

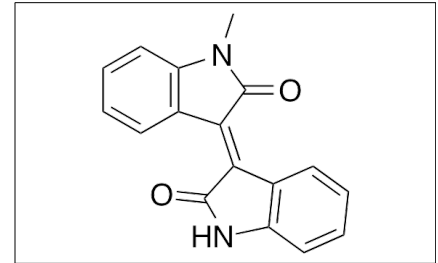
Formula C₁₇H₁₂N₂O₂

Formula Wt. 276.30

Melting Point

Purity ≥98%

Solubility DMSO: ≥ 51 mg/mL



Bulk quantities available upon request

Product ID	Size
M3232	10 mg
M3232	50 mg

Store Temp -20° C

Ship Temp Ambient

Description Methylisoidigotin is an indirubin derivative that displays anti-inflammatory, anti-angiogenic, and anticancer chemotherapeutic activities. In vitro, methylisoidigotin inhibits growth and proliferation of various leukemia cell lines. In LPS-stimulated macrophages and keratinocytes, methylisoidigotin decreases production of NO and pro-inflammatory cytokines. This compound also induces apoptosis and inhibits tumor growth in animal models of colon adenocarcinoma. In other models, methylisoidigotin decreases GSK expression and downregulates Wnt activity. Additionally, methylisoidigotin decreases production of VEGF and suppresses tube formation in vitro.

- References** Huang M, Lin HS, Lee YS, et al. Evaluation of meisoindigo, an indirubin derivative: in vitro antileukemic activity and in vivo pharmacokinetics. *Int J Oncol.* 2014 Oct;45(4):1724-34. PMID: 25050545.
- Zhang HJ, Zhang Y, Jin J, et al. Mechanism about therapeutic effect of meisoindigo on psoriasis via down-regulation of the TLR4-TAK-NF-kappaB pathways. *Yao Xue Xue Bao.* 2013 Apr;48(4):503-7. PMID: 23833936.
- Zuo MX, Li Y, Zhou JH, et al. Effect of Meisoindigo on Wnt signal pathway in K562 and HL-60 cells. *Zhongguo Shi Yan Xue Ye Xue Za Zhi.* 2010 Jun;18(3):579-82. PMID: 20561405.
- Mingxin Z, Yan L, Hongbo W, et al. The antitumor activity of meisoindigo against human colorectal cancer HT-29 cells in vitro and in vivo. *J Chemother.* 2008 Dec;20(6):728-33. PMID: 19129071.
- Xiao Z, Wang Y, Lu L, et al. Anti-angiogenesis effects of meisoindigo on chronic myelogenous leukemia in vitro. *Leuk Res.* 2006 Jan;30(1):54-9. PMID: 15982734.

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