

Catalog # 10-5157 C-DIM 8

CAS# 151358-47-3 1,1-Bis(3'-indolyl)-1-(p-hydroxyphenyl)methane; DIM-C-pPhOH Lot # X109638



C-DIM 8 is an antagonist of the orphan nuclear receptor Nur77 (NR4A1, TR3).¹ Induces reactive oxygen species and ER stress in pancreatic cancer cells.² C-DIM 8 mimics the effect of Nur77 knockdown in non-small-cell lung cancer A549 and H460 cells, inhibiting cell growth and inducing apoptosis which was accompanied by decreased expression of survivin and inhibition of mTORC1 signaling.³ Inhibits the expression of β 1- and β 3-integrin and blocks integrin-dependent breast cancer cell migration.⁴ Decreases expression of the histone methyltransferase G9A (EHMT2) in a variety of cancer cell lines.⁵

- 1) Chintharlapalli et al. (2005), Activation of Nur77 by selected 1,1-Bis(3'-indolyl)-1-(p-substituted phenyl)methanes induces apoptosis through nuclear pathways; J. Biol. Chem., **280** 24903
- 2) Lee et al. (2014), The orphan nuclear receptor NR4A1 (Nur77) regulates oxidative and endoplasmic reticulum stress in pancreatic cancer cells; Mol. Cancer Res., **12** 527
- 3) Lee et al. (2012), The nuclear receptor TR3 regulates mTORC1 signaling in lung cancer cells expressing wild-type p53; Oncogene, **31** 3265
- 4) Hedrick et al. (2016), NR4A1 Antagonists Inhibit ß1-Integrin-Dependent Breast Cancer Cell Migration; Mol. Cell. Biol., 36 1383
- 5) Shrestha et al. (2021), The Histone Methyltransferase Gene G9A Is Regulated by Nuclear Receptor 4A1 in Alveolar Rhabdomyosarcoma Cells; Mol. Cancer Ther. **20** 612

PHYSICAL DATA

Molecular Weight:	338.41
Molecular Formula:	C ₂₃ H ₁₈ N ₂ O
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 35 mg/ml); ethanol (35 mg/ml)
Physical Description:	Pink solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months.

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