

Certificate of Analysis

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Product Name: DIM-C-pPhOH

Catalog No.: 6377

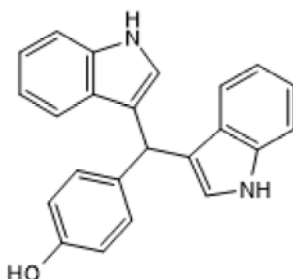
Batch No.: 1

CAS Number: 151358-47-3

IUPAC Name: 1,1-Bis(3'-indolyl)-1-(*p*-hydroxyphenyl)methane

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₁₈N₂O
Batch Molecular Weight: 338.408
Physical Appearance: Pale pink solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Ethyl acetate:Petroleum ether [3:7])
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
 Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	81.63	5.36	8.28
Found	81.72	5.26	8.17

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number: 151358-47-3

IUPAC Name: 1,1-Bis(3'-indolyl)-1-(*p*-hydroxyphenyl)methane

Description:

DIM-C-pPhOH is a Nur77 (NR4A1) antagonist. Inhibits TGF- β induced cell migration of breast cancer cell lines. Promotes ROS/endoplasmic reticulum stress and proapoptotic pathways in pancreatic cancer cell lines. Mimics effects of Nur77 RNAi silencing.

Physical and Chemical Properties:

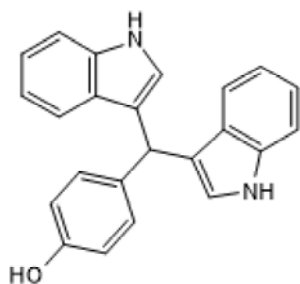
Batch Molecular Formula: C₂₃H₁₈N₂O

Batch Molecular Weight: 338.408

Physical Appearance: Pale pink solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



References:

Hedrick *et al* (2016) NR4A1 antagonists inhibit 1-Integrin-dependent breast cancer cell migration. *Mol.Cell.Biol* **36** 1383. PMID: 26929200.

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. PMID: 24515801.

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. PMID: 15871945.

Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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