

## DIM-C-pPhOH

## Chemical Properties

CAS No. : 151358-47-3

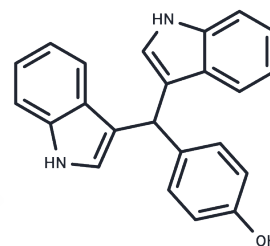
Formula: C<sub>23</sub>H<sub>18</sub>N<sub>2</sub>O

Molecular Weight: 338.4

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	DIM-C-pPhOH (CDIM8) is a nur77 (NR4A1) antagonist, inhibits TGF- $\beta$ 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.
Targets(IC50)	Apoptosis, NR4A

## Solubility Information

Solubility	DMSO: 33.84 mg/mL (100 mM), Sonication is recommended. Ethanol: 33.84 mg/mL (100 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.91 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.9551 mL	14.7754 mL	29.5508 mL
5 mM	0.591 mL	2.9551 mL	5.9102 mL
10 mM	0.2955 mL	1.4775 mL	2.9551 mL
50 mM	0.0591 mL	0.2955 mL	0.591 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Chintharlapalli S,etal.Activation of Nur77 by selected 1,1-Bis(3'-indolyl)-1-(p-substituted phenyl)methanes induces apoptosis through nuclear pathways.J Biol Chem. 2005 Jul 1;280(26):24903-14.

Hedrick E,etal.NR4A1 Antagonists Inhibit  $\beta$ 1-Integrin-Dependent Breast Cancer Cell Migration.Mol Cell Biol. 2016 Apr 15;36(9):1383-94.

Lee SO,etal.The orphan nuclear receptor NR4A1 (Nur77) regulates oxidative and endoplasmic reticulum stress in pancreatic cancer cells.Mol Cancer Res. 2014 Apr;12(4):527-538.

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