

DIM-C-pPhOCH₃

Catalog No: tcsc0042246



Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg



Specifications

CAS No:

33985-68-1

Formula:

$C_{24}H_{20}N_2O$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 33.3 mg/mL (94.49 mM)

Observed Molecular Weight:

352.43

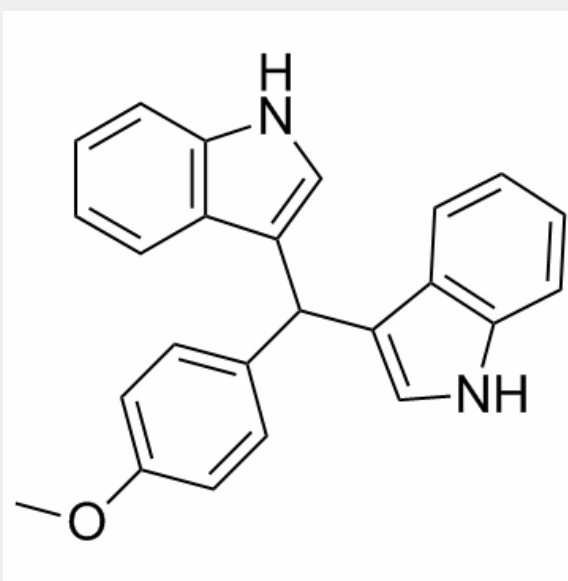
Product Description

DIM-C-pPhOCH₃ is a **Nur77** agonist. Nerve growth factor-induced B α (NGFI-B α , Nur77) is an orphan nuclear receptor.

IC50 & Target: Nur77^[1]

In Vitro: DIM-C-pPhOCH₃ decreases survival and induces apoptosis in RKO colon cancer cells, and this is accompanied by induction of tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) protein. DIM-C-pPhOCH₃ also induces Nur77-independent apoptosis. DIM-C-pPhOCH₃ (10 μM) inhibits cell growth after treatment for 24, 48, or 72 h, and the maximum inhibitory response is observed after 72 h, where there is considerable cell detachment and dead cells. The growth-inhibitory effects observed for DIM-C-pPhOCH₃ after 72 h are also accompanied by several markers of apoptosis, including PARP cleavage and cleavage of caspase-3, caspase-9, and caspase-8. PARP cleavage is also observed after treatment of RKO cells for 48 h with DIM-C-pPhOCH₃^[1].

In Vivo: DIM-C-pPhOCH₃ (25 mg/kg/d) also inhibits tumor growth in athymic nude mice bearing RKO cell xenografts. The effects of DIM-C-pPhOCH₃ (25 mg/kg/d) on colon tumor growth are also investigated in athymic nude mice bearing RKO cell xenografts. Treatment with the DIM-C-pPhOCH₃ significantly decreases tumor volumes and final tumor weights compared with corn oil controls^[1].



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