

Wnt-C59 (C59)

Catalog No: tcsc1420



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

1243243-89-1

Formula:

$C_{25}H_{21}N_3O$

Pathway:

Stem Cell/Wnt;Stem Cell/Wnt

Target:

Porcupine;Wnt

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 73.3 mg/mL (193.17 mM)

Alternative Names:

C59

Observed Molecular Weight:

379.45

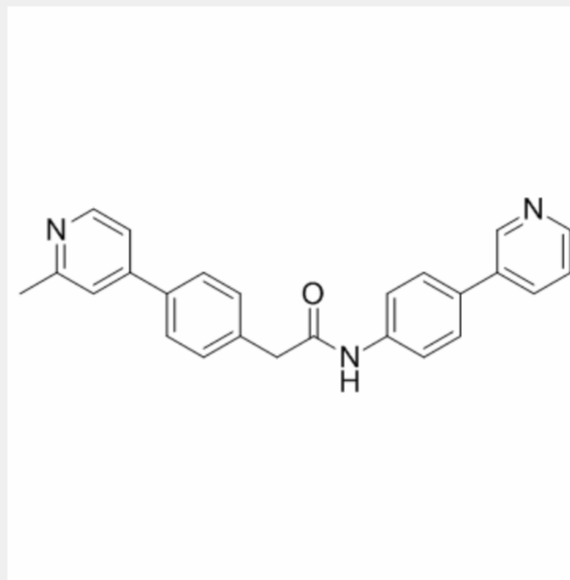
Product Description

Wnt-C59 (C59) is a highly potent and oral **porcupine (PORCN)** inhibitor with an **IC₅₀** of 74 pM.

IC50 & Target: IC50: 74 pM (PORCN)^[1]

In Vitro: Wnt-C59 (C59) inhibits PORCN activity *in vitro* at nanomolar concentrations, as assessed by inhibition of Wnt palmitoylation, Wnt interaction with the carrier protein Wntless/WLS, Wnt secretion, and Wnt activation of β -catenin reporter activity. Wnt-C59 inhibits WNT3A-mediated activation of a multimerized TCF-binding site driving luciferase with an IC₅₀ of 74 pM^[1].

In Vivo: Wnt-C59 displays good bioavailability in mice. Wnt-C59 blocks progression of mammary tumors in MMTV-WNT1 transgenic mice while downregulating Wnt/ β -catenin target genes^[1]. Wnt-C59 has the potential to eradicate cancer stem cells in human tumors. Wnt-C59 inhibits stemness properties of NPC cells in a dosage-dependent manner by arresting sphere formation in both HNE1 and SUNE1 cells^[2].



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