

Product Name: Wnt-C59

Catalog No.: 5148

Batch No.: 6

CAS Number: 1243243-89-1

IUPAC Name: 4-(2-Methyl-4-pyridinyl)-N-[4-(3-pyridinyl)phenyl]benzeneacetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₂₁N₃O.¼H₂O

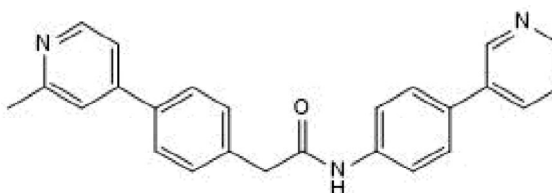
Batch Molecular Weight: 383.95

Physical Appearance: Off White solid

Solubility: DMSO to 20 mM
ethanol to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	78.2	5.64	10.94
Found	77.82	5.32	10.69

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

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IUPAC Name: 4-(2-Methyl-4-pyridinyl)-N-[4-(3-pyridinyl)phenyl]benzeneacetamide

Description:

Wnt-C59 is a highly potent inhibitor of the MBOAT (membrane-bound O-acyltransferase) family member, Porcupine (PORCN) (IC₅₀ = 74 pM), that mediates WNT palmitoylation and secretion. Wnt-C59 potently inhibits the processing of both canonical (1, 2, 3a, 6, 7b, 8a, 9a, 9b, 10) and non-canonical (4, 5a, 11, 16) Wnt subtypes. Wnt-C59 blocks progression of mammary tumors in MMTV-WNT1 transgenic mice and downregulates Wnt/β-catenin target genes. Wnt-C59-treated tumors show a decrease in β-catenin, CyclinD1 and c-Myc. Wnt-C59 induces cardiomyocyte differentiation from human iPSCs following culture with CHIR 99021 (Cat. No. 4423). Wnt-C59 eff... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

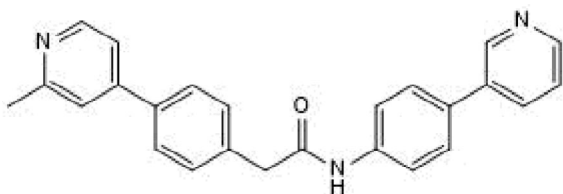
Batch Molecular Formula: C₂₅H₂₁N₃O.½H₂O

Batch Molecular Weight: 383.95

Physical Appearance: Off White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



References:

Jiang et al (2021) Generation of pancreatic progenitors from human pluripotent stem cells by small molecules. *Stem Cell Rep.* **16** 2395. PMID: 34450037.

Motono et al (2016) WNT-C59, a small-molecule WNT inhibitor, efficiently induces anterior cortex that includes cortical motor neurons from human pluripotent stem cells. *Stem Cells Transl. Med.* **5** 552. PMID: 26941358.

Burridge et al (2014) Chemically defined generation of human cardiomyocytes. *Nat. Methods* **11** 855. PMID: 24930130.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 mM

ethanol to 20 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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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