

Product Name: Wnt-C59

Catalog No.: 5148

Batch No.: 3

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

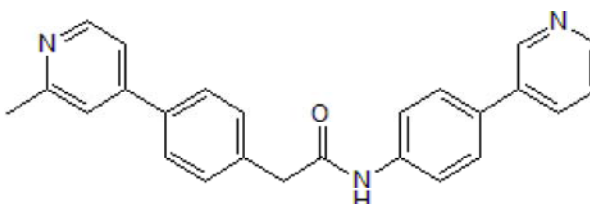
Batch Molecular Weight: 383.95

Physical Appearance: White solid

Solubility: DMSO to 20 mM
ethanol to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	78.2	5.64	10.94
Found	78.45	5.57	10.69

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

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Description:

Highly potent inhibitor of Porcupine (PORCN), a membrane-bound O-acyltransferase (MBOAT) (IC₅₀ = 74 pM). Shown to inhibit Wnt signaling pathways. Blocks progression of mammary tumors in MMTV-WNT1 transgenic mice and downregulates Wnt/β-catenin target genes. Induces cardiomyocyte differentiation from human iPSCs following culture with CHIR 99021 (Cat. No. 4423). Cell permeable and orally bioavailable.

Physical and Chemical Properties:

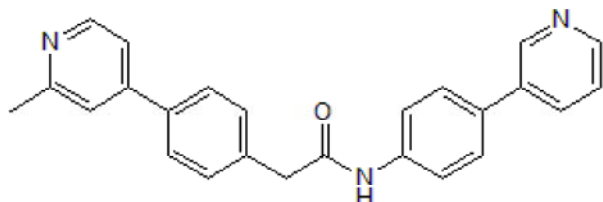
Batch Molecular Formula: C₂₅H₂₁N₃O.¼H₂O

Batch Molecular Weight: 383.95

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



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. 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.

References:

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

Proffitt et al (2013) Pharmacological inhibition of the Wnt acyltransferase PORCN prevents growth of WNT-driven mammary cancer. *Cancer Res.* **73** 502. PMID: 23188502.

Wend et al (2013) WNT10B/β-catenin signalling induces HMGA2 and proliferation in metastatic triple-negative breast cancer. *EMBO Mol.Med.* **5** 264. PMID: 23307470.

Youssef et al (2012) Adult interfollicular tumour-initiating cells are reprogrammed into an embryonic hair follicle progenitor-like fate during basal cell carcinoma initiation. *Nat. Cell Biol.* **14** 1282. PMID: 23178882.

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