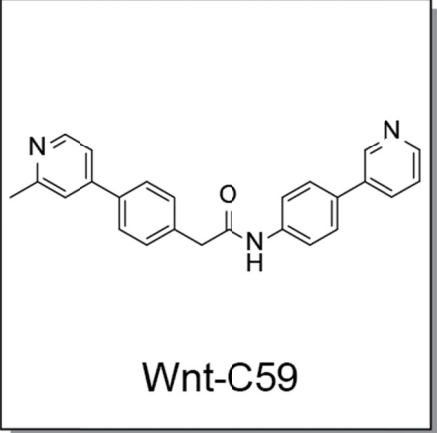




Product Specification Sheet

Product Name:	Wnt-C59	 <p>Wnt-C59</p>
Catalog Number:	C7641-2 (powder) C7641-2s (10 mM in DMSO)	
Package Size:	2 mg	
Technical information:		
Chemical Formula:	C ₂₅ H ₂₁ N ₃ O	
CAS #:	1243243-89-1	
Molecular Weight:	379.45	
Purity:	>98%	
Formulation:	Pale yellow solid	
Solubility:	Soluble in DMSO up to 50 mM	
Chemical Name:	2-(4-(2-methylpyridin-4-yl)phenyl)-N-(4-(pyridin-3-yl)phenyl)acetamide	
Storage:	Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.	
Handling:	<ul style="list-style-type: none">• For C7641-2 (powder), add 527 uL of DMSO to make 10 mM solution.• For C7641-2s, before open the vial, centrifuge the vial at 500rpm x 1 min in a 50 mL conical tube to ensure full recovery of sample.	
Biological Activity:	Wnt-C59 was first disclosed in patent WO2010101849 as a potent Wnt signaling modulator. It has IC ₅₀ < 0.11 nM in Wnt-Luc reporter assay for Wnt pathway inhibition. In our study Wnt-C59 prevents palmitoylation of Wnt proteins by Porcupine (Porcn, a membrane-bound O-acyltransferase), thereby blocking Wnt secretion and activity, similar to Wnt inhibitors IWP-2, IWP-3 and IWP-4. But Wnt-C59 is more potent and selective, and has better chemical/physical properties, suitable for in vitro/in vivo studies.	
Reference:	<ol style="list-style-type: none">1. Dai Chen et al. (N-(HETERO)ARYL,2-(HETERO)ARYL-SUBSTITUTED ACETAMIDES FOR USE AS WNT SIGNALING MODULATORS. PCT WO/2010/101849.2. Chen B, Dodge ME, Tang W, Lu J, Ma Z, Fan CW, Wei S, Hao W, Kilgore J, Williams NS, Roth MG, Amatruda JF, Chen C, Lum L. Small molecule-mediated disruption of Wnt-dependent signaling in tissue regeneration and cancer. Nat Chem Biol. 2009;5(2):100-7.	

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