

Wnt-C59, Porcupine inhibitor

Catalog	Unit
TBI4605-5MG	5 mg
TBI4605-25MG	25 mg

Product Details

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

Molecular Formula: C₂₅H₂₁N₃O

Formula Weight: 379.46

CAS Number: 1243243-89-1

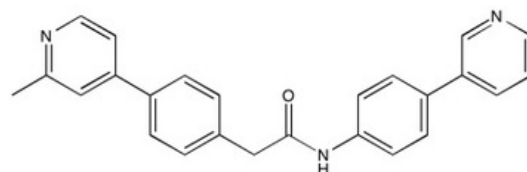
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 7 mg/ml) or in Ethanol (up to 6 mg/ml).

Storage: -20°C

Stability: ≥ 1 year.



Applications

Porcupine inhibitor

Functions

Wnt-C59 is a potent (IC₅₀ = 74 pmol/L) inhibitor of Porcupine (PORCN), a Wnt-acyltransferase. Blockage of Wnt-acyltransferase prevents secretion of all Wnt isoforms. It was able to block progression of mammary tumors in MMTV-WNT1 transgenic mice. Wnt-C59 strongly inhibited the growth of intestinal neoplasia in RZ-mutant mice. Wnt-C59 was able to efficiently differentiate pluripotent stem cells into cortical neurons (CTIP2+/COUP-TF1). Wnt-C59 was also able to dramatically attenuate kidney fibrosis via inhibition of collagen mRNA expression and expression of inflammatory cytokines.

Application Procedures

First dissolved in DMSO (up to 7 mg/ml) or in Ethanol (up to 6 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

For research use only.