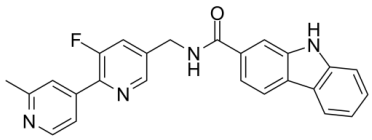
Data Sheet

Product Name:	Porcn-IN-1
Cat. No.:	CS-0041562
CAS No.:	2036044-77-4
Molecular Formula:	C25H19FN4O
Molecular Weight:	410.44
Target:	Porcupine
Pathway:	Stem Cell/Wnt
Solubility:	DMSO : ≥ 100 mg/mL (243.64 mM)



BIOLOGICAL ACTIVITY:

Porcn-IN-1 is potent **porcupine** inhibitor with an **IC_{50}** of 0.5±0.2 nM. IC50 & Target: IC50: 0.5±0.2 nM (Porcupine inhibitor)[1] **In Vitro:** Porcupine is an enzyme that catalyses the addition of palmitoleate to a serine residue in Wnt proteins, a process which is required for the secretion of Wnt proteins. Porcupine-IN-1 is as potent as the clinical compound LGK974 in a cell based STF reporter gene assay. Porcn-IN-1 potently inhibits the secretion of Wnt3A, therefore is confirmed to be a porcupine inhibitor[1]. **In Vivo:** Porcn-IN-1 demonstrates moderate clearance under the treatment of human liver microsomes (57 mL/min/kg) and rat liver microsomes (24 mL/min/kg). It exhibits high clearance when treated with mouse microsomes (109 mL/min/kg)[1].

PROTOCOL (Extracted from published papers and Only for reference)

Cell Assay: [1]HEK293T cells are transfected with pLinbin-Wnt3A plasmid or vehicle control. The HEK293T cells are then treated with or without compounds (Porcn-IN-1). Western Blot is used after 48 h to analyze both the cell lysis and culture medium[1].

References:

[1]. Xu Z, et al. Design, synthesis, and evaluation of novel porcupine inhibitors featuring a fused 3-ring system based on the 'reversed' amide scaffold.

CAIndexNames:

9H-Carbazole-2-carboxamide, N-[(3-fluoro-2'-methyl[2,4'-bipyridin]-5-yl)methyl]-

SMILES:

FC1=C(C2=CC(C)=NC=C2)N=CC(CNC(C3=CC=C(C(C=CC=C4)=C4N5)C5=C3)=O)=C1

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