

# Porcupine-IN-1

## Catalog No: tcsc0041562



### Available Sizes

**Size:** 1mg

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg



### Specifications

**CAS No:**

2036044-77-4

**Formula:**

$C_{25}H_{19}FN_4O$

**Pathway:**

Stem Cell/Wnt

**Target:**

Porcupine

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 100$  mg/mL (243.64 mM)

**Observed Molecular Weight:**

410.44

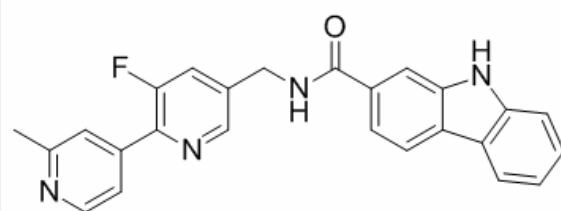
### Product Description

Porcupine-IN-1 is potent **porcupine** inhibitor with an **IC<sub>50</sub>** of  $0.5 \pm 0.2$  nM.

IC50 & Target: IC50:  $0.5 \pm 0.2$  nM (Porcupine inhibitor)<sup>[1]</sup>

**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. Porcupine-IN-1 potently inhibits the secretion of Wnt3A, therefore is confirmed to be a porcupine inhibitor<sup>[1]</sup>.

**In Vivo:** Porcupine-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)<sup>[1]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!