

# NPS-1034

Catalog No: tcsc0019643



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 25mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

1221713-92-3

**Formula:**

$C_{31}H_{23}F_2N_5O_3$

**Pathway:**

Protein Tyrosine Kinase/RTK;Protein Tyrosine Kinase/RTK

**Target:**

c-Met/HGFR;TAM Receptor

**Purity / Grade:**

>98%

**Solubility:**

DMSO : 34 mg/mL (61.65 mM; Need ultrasonic)

**Observed Molecular Weight:**

551.54

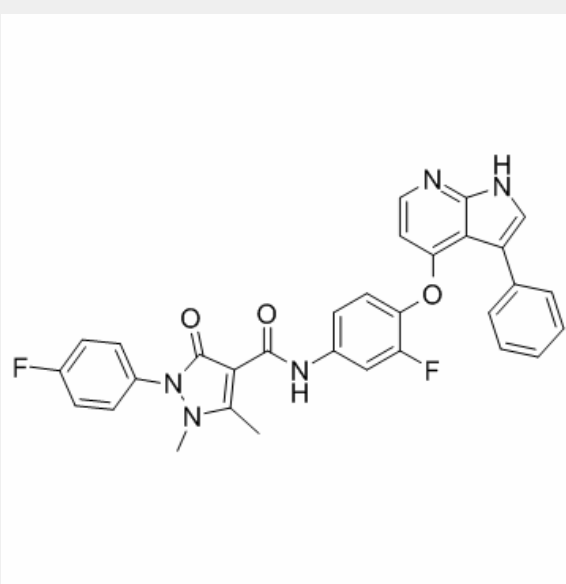
## Product Description

NPS-1034 is a dual inhibitor of **AXL** and **MET** with **IC<sub>50</sub>**s of 10.3 and 48 nM, respectively.

IC50 & Target: IC50: 10.3 nM (AXL), 48 nM (MET)<sup>[1]</sup>

**In Vitro:** NPS-1034 is a dual inhibitor of AXL and MET with IC<sub>50</sub>s of 10.3 and 48 nM, respectively. The expression and activity of AXL is significantly increased in HCC827/ER cells, and NPS-1034 treatment effectively inhibits its tyrosine phosphorylation<sup>[1]</sup>. NPS-1034 inhibits the viability of the MKN45 and SNU638 cell lines, which highly express the MET gene and p-MET (phosphorylated MET), with IC<sub>50</sub> values of 112.7 and 190.3 nmol, respectively. In contrast, NPS-1034 inhibits AGS, KATOIII, NCI-N87, MKN1, MKN28, and MKN74 cell viability with IC<sub>50</sub> values ranging from 1 μmol to more than 10 μmol. MET phosphorylation is dramatically decreased after treatment with NPS-1034 in the MKN45 cells, but not in the MKN28 cells. NPS-1034 inhibits hepatocyte growth factor (HGF)-stimulated MET autophosphorylation (Y1234/1235) in the AGS and MKN1 cell lines with IC<sub>50</sub> values of [2].

**In Vivo:** NPS-1034 inhibits tumor proliferation, which highly expresses p-MET. NPS-1034 treatment induces a clear decrease in the vascularization of the tumors. The expression of alpha-smooth muscle actin (α-SMA) is decreased in the tumor sections of mice treated with NPS-1034. NPS-1034-treated mice show virtually no weight loss, indicating that NPS-1034 is generally well tolerated<sup>[2]</sup>.



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