

Mps1-IN-1

Catalog No: tcsc3776



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg



Specifications

CAS No:

1125593-20-5

Formula:

$C_{28}H_{33}N_5O_4S$

Pathway:

Cell Cycle/DNA Damage;Cytoskeleton

Target:

Mps1;Mps1

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 39 mg/mL (72.81 mM)

Observed Molecular Weight:

535.66

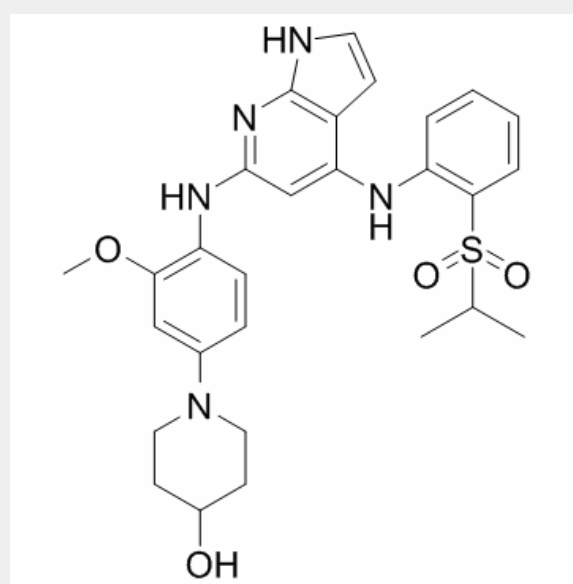
Product Description

Mps1-IN-1 is a potent, selective and ATP-competitive **Mps1** kinase inhibitor, with an **IC₅₀** and a **K_d** of 367 nM and 27 nM.

IC50 & Target: IC50: 367 nM (Mps1)^[1]

K_d: 27 nM (Mps1)^[1]

In Vitro: Mps1-IN-1 is a potent, selective and ATP-competitive Mps1 kinase inhibitor, with an IC₅₀ and a K_d of 367 nM and 27 nM. Mps1-IN-1 also has high affinity for ALK, and LTK, with K_ds of 21 and 39 nM, respectively, but shows little or no inhibition on other 352 member kinases. Mps1-IN-1 (5, 10 μM) induces bypass of a checkpoint-mediated mitotic arrest in U2OS cells. Mps1-IN-1 disrupts recruitment of Mad2 to kinetochores, and reduces the phosphorylation status of Aurora B at threonine-232 (Thr232). Mps1-IN-1 (10 μM) shows no effect on centrosome duplication. In addition, Mps1-IN-1 (5-10 μM) suppresses the proliferative capacity of HCT116^[1].



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