

KPT9274

## Chemical Properties

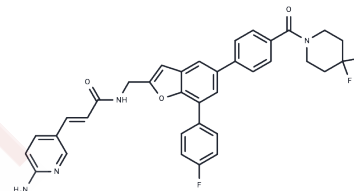
CAS No. : 1643913-93-2

Formula: C<sub>35</sub>H<sub>29</sub>F<sub>3</sub>N<sub>4</sub>O<sub>3</sub>

Molecular Weight: 610.62

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	KPT9274 (PAK4-IN-1) is a non-competitive dual inhibitor of PAK4 and NAMPT (IC <sub>50</sub> = ~120 nM). It is an orally bioavailable small molecule.
Targets (IC <sub>50</sub> )	NAMPT, PAK
In vitro	In several human RCC cell lines, KPT-9274 interferes with PAK4 and NAD biosynthetic pathways leading to reduction of G2/M transit as well as induction of apoptosis and decrease in cell invasion and migration. The inhibition of the PAK4 pathway by KPT-9274 attenuates nuclear β-catenin as well as the Wnt/β-catenin targets cyclin D1 and c-Myc.
In vivo	In mice, KPT-9274 (200 mg/kg) daily is administered either intravenously or orally with the absence of any signs of toxicity.
Cell Research	786-O, ACHN, Caki-1 and U-2 OS cells are treated with KPT-9274 (1 μM and 5 μM) incubating for 12 hours.
Animal Research	786-O (VHL-mut) human RCC xenograft model (nude mice) is treated with KPT-9274 (100 and 200 mg/kg), prepared in 58% Polyvinylpyrrolidone K30 + 21% methyl cellulose + 21% Phospholipon 90 g, by oral gavage.

## Solubility Information

Solubility	DMSO: 165 mg/mL (270.22 mM), Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (4.09 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

---

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.6377 mL	8.1884 mL	16.3768 mL
5 mM	0.3275 mL	1.6377 mL	3.2754 mL
10 mM	0.1638 mL	0.8188 mL	1.6377 mL
50 mM	0.0328 mL	0.1638 mL	0.3275 mL

---

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Abu About O,etal.Dual and Specific Inhibition of NAMPT and PAK4 By KPT-9274 Decreases Kidney Cancer Growth. Mol Cancer Ther. 2016 Sep;15(9):2119-29.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481