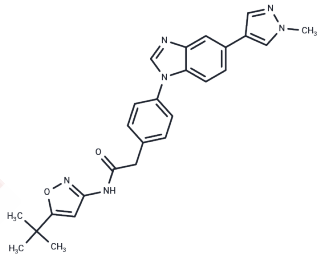
Data Sheet (Cat.No.T12598)

TargetMol

Pz-1

Chemical Properties



CAS No. : 1800505-64-9

Formula: C26H26N6O2

Molecular Weight: 454.52

Appearance: no data available

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

Biological Description

Description	Pz-1 is an inhibitor of VEGFR2 and RET (rearranged during transfection) tyrosine kinase that blocks the blood supply required for RET-stimulated growth.
Targets(IC50)	c-RET,VEGFR
In vitro	Pz-1(1.0nM) strongly inhibited phosphorylation of all tested RET oncoproteins in cell-based assays with IC50s of less than 1 nM for both VEGFR2 and RET wild type kinases[1].
In vivo	Pz-1 (1.0mg/kg) abrogated the formation of tumors induced by RET-mutant fibroblasts and blocked the phosphorylation of both RET and VEGFR2 in tumor tissue. Pz-1 featured no detectable toxicity at concentrations of up to 100.0mg/kg[1].

Solubility Information

Solubility	DMSO: 45 mg/mL (99.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2001 mL	11.0006 mL	22.0012 mL
5 mM	0.440 mL	2.2001 mL	4.4002 mL
10 mM	0.220 mL	1.1001 mL	2.2001 mL
50 mM	0.044 mL	0.220 mL	0.440 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.

Reference

Frett B, et al. Fragment-Based Discovery of a Dual pan-RET/VEGFR2 Kinase Inhibitor Optimized for Single-Agent Polypharmacology. Angew Chem Int Ed Engl. 2015 Jul 20;54(30):8717-21.

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