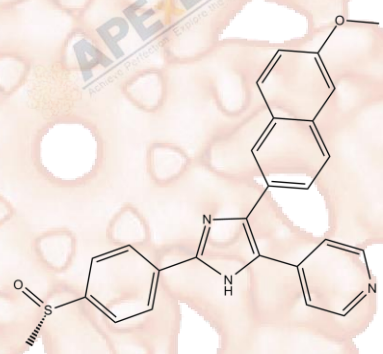
Product Data Sheet

Tie2 kinase inhibitor



Cat. No.:	A5979
CAS No.:	948557-43-5
Formula:	C26H21N3O2S
M.Wt:	439.53
Synonyms:	
Target:	Tyrosine Kinase
Pathway:	Tie-2
Storage:	Store at -20°C

Solvent & Solubility

In Vitro

⩾22 mg/mL in DMSO; insoluble in H2O; insoluble in EtOH

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	2.2752 mL	11.3758 mL	22.7516 mL
5 mM	0.4550 mL	2.2752 mL	4.5503 mL
10 mM	0.2275 mL	1.1376 mL	2.2752 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	Tie-2(Tie2) inhibitor
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	HEL cells
Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	232 nM

	Applications:	In HEL cells, Tie2 Kinase Inhibitor moderately suppressed the activity of Tie2 tyrosine kinase, with an IC50 value of 232 nM.
In Vivo	**Animal experiment**	
	Animal models:	Mouse model of angiogenesis
	Dosage form:	25 or 50 mg/kg; i.p.; b.i.d.
	Applications:	In a mouse model of angiogenesis, Tie2 Kinase Inhibitor, at doses of 25 or 50 mg/kg (i.p., b.i.d.), reduced 41% and 70% of angiogenesis, respectively.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Semones M, Feng Y, Johnson N, Adams JL, Winkler J, Hansbury M. Pyridinylimidazole inhibitors of Tie2 kinase. Bioorg Med Chem Lett. 2007 Sep; 17(17): 4756-60.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.