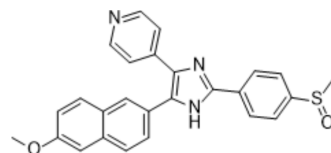


Tie2 kinase inhibitor 1

Cat. No.:	HY-100556		
CAS No.:	948557-43-5		
Molecular Formula:	C ₂₆ H ₂₁ N ₃ O ₂ S		
Molecular Weight:	439.53		
Target:	Tie		
Pathway:	Protein Tyrosine Kinase/RTK		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 17.86 mg/mL (40.63 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.79 mg/mL (4.07 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.79 mg/mL (4.07 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Tie2 kinase inhibitor 1 (compound 5) is a potent, selective Tie2 kinase inhibitor with an IC ₅₀ of 250 nM ^[1] . Tie2 kinase inhibitor 1 has anti-cancer activity ^[2] .
IC₅₀ & Target	Tie2 250 nM (IC ₅₀)
In Vitro	Tie2 kinase inhibitor 1 (compound 5) has an IC ₅₀ of 50 μM for p38 and has moderate to excellent cellular activities (cell IC ₅₀ = 232 nM) ^[1] . Tie2 kinase inhibitor 1 inhibits tunica internal endothelial cell kinase 2 (Tie2) ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Tie2 kinase inhibitor 1 (intraperitoneally; 50 mg/kg; twice a week for 6 weeks) results in statistically significant reductions in tumor volume by day 15. Tie2 kinase inhibitor 1 results in a 61% reduction in tumor volume by day 20, and reduces tumor volume by 45% by 6 weeks^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Athymic nude mice (6- to 8-week-old females) ^[1]
Dosage:	50 mg/kg
Administration:	Intraperitoneally; twice a week for 6 weeks
Result:	Resulted in statistically significant reductions in tumor volume.

CUSTOMER VALIDATION

- Patent. US20170349880A1.

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REFERENCES

[1]. Semones M, et al. Pyridinylimidazole inhibitors of Tie2 kinase. *Bioorg Med Chem Lett*. 2007 Sep 1;17(17):4756-60. Epub 2007 Jun 27.

[2]. Hasenstein JR, et al. Efficacy of Tie2 receptor antagonism in angiosarcoma. *Neoplasia*. 2012 Feb;14(2):131-40.

Caution: Product has not been fully validated for medical applications. For research use only.

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