NVP-BHG712

Cat. No.:	HY-13258A		
CAS No.:	940310-85-0)	
Molecular Formula:	C ₂₆ H ₂₀ F ₃ N ₇ O		
Molecular Weight:	503.48		
Target:	Ephrin Rece	eptor	
Pathway:	Protein Tyre	osine Kina	ase/RTK
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	1.9862 mL	9.9309 mL	19.8618 mL	
		5 mM	0.3972 mL	1.9862 mL	3.9724 mL	
		10 mM	0.1986 mL	0.9931 mL	1.9862 mL	
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.				
n Vivo		ent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline 08 mg/mL (4.13 mM); Clear solution				
		one by one: 10% DMSO >> 90% cor ng/mL (4.13 mM); Clear solution	n oil			

BIOLOGICAL ACTIVITY		
Description	NVP-BHG712 is an oral active EphB4 kinase autophosphorylation inhibitor, with IC ₅₀ values of 3.3 nM and 3.0 nM for EphA2 and EphB4, respectively ^{[1][2]} .	
IC ₅₀ & Target	IC50: 3.3 nM (EphA2), 3 nM (EphB4) ^[2] .	
In Vitro	NVP-BHG712 inhibits VEGF driven vessel formation, while it has only little effects on VEGF receptor (VEGFR) activity. The data suggests a close cross talk between the VEGFR and EphR signaling during vessel formation ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	NVP-BHG712 (3, 10 and 30 mg/kg, p.o., daily) inhibits VEGF driven tissue growth and angiogenesis ^[2] .	

Product Data Sheet

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Animal Model:	Mice arrying chambers ^[1] .
Dosage:	3, 10 and 30 mg/kg.
Administration:	P.O. daily for 4 days.
Result:	Significantly inhibited VEGF stimulated tissue formation and vascularization at doses of daily 3 mg/kg. Administration of 10 mg/kg/kg p.o. was sufficient to reverse VEGF enhanced tissue formation and vessel growth.

CUSTOMER VALIDATION

- Pharmacol Res. 2020 Aug;158:104868.
- Cell Death Dis. 2020 Aug 14;11(8):632.
- Phytomedicine. 2021, 153503.

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REFERENCES

[1]. Tröster A, et al. NVP-BHG712: Effects of Regioisomers on the Affinity and Selectivity toward the EPHrin Family. ChemMedChem. 2018 Aug 20;13(16):1629-1633.

[2]. Martiny-Baron G, et al. The small molecule specific EphB4 kinase inhibitor NVP-BHG712 inhibits VEGF driven angiogenesis. Angiogenesis. 2010 Sep;13(3):259-67.

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