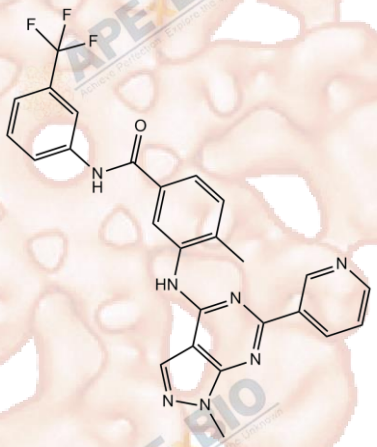
Product Data Sheet

NVP-BHG712



Cat. No.:	A8683
CAS No.:	940310-85-0
Formula:	C26H20F3N7O
M.Wt:	503.48
Synonyms:	
Target:	Tyrosine Kinase
Pathway:	Src
Storage:	Store at -20°C

Solvent & Solubility

In Vitro

⩾25.15 mg/mL in DMSO; insoluble in H2O; ⩾6.69 mg/mL in EtOH with ultrasonic

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
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 solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	EphB4 inhibitor,potent and selective
IC_{50} & Target	25 nM(ED50) (EphB4), 0.395 μM (C-Raf), 1.266 μM (c-Src), 1.667 μM (c-Abl), >10 μM (Tie-2)

In Vitro

Cell Viability Assay

Cell Line:	Hek293 cells transfected with different EphRs
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:	10 ~ 1000 nM; 1 hr
	Applications:	In Hek293 cells transfected different EphRs, NVP-BHG712 dose-dependently inhibited EphRs autophosphorylation. NVP-BHG712 showed inhibitory preference for EphB4 over EphB2, EphA2, EphB3 and EphA3.
In Vivo	**Animal experiment**	
	Animal models:	Mice carrying chambers containing VEGF
	Dosage form:	3, 10 and 30 mg/kg/d; p.o.
	Applications:	In VEGF driven angiogenesis tissue model, NVP-BHG712 significantly inhibited VEGF stimulated tissue formation and vascularization at a dose as low as 3 mg/kg/d. At the dose of 10 mg/kg/d, NVP-BHG712 was sufficient to reverse VEGF induced tissue formation and vessel growth.
	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]. Martiny-Baron, G., et al., The small molecule specific EphB4 kinase inhibitor NVP-BHG712 inhibits VEGF driven angiogenesis. Angiogenesis, 2010. 13(3): p. 259-67.

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.

APExBIO Technology
www.apexbt.com
7505 Fannin street, Suite 410, Houston, TX 77054.
Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com