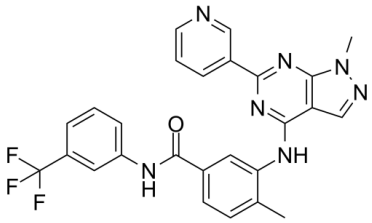
Data Sheet

Product Name:	NVP-BHG712
Cat. No.:	CS-0094280
CAS No.:	940310-85-0
Molecular Formula:	C26H20F3N7O
Molecular Weight:	503.48
Target:	Ephrin Receptor
Pathway:	Protein Tyrosine Kinase/RTK
Solubility:	DMSO : 31.25 mg/mL (62.07 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

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]. IC50 & 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]. **In Vivo:** NVP-BHG712 (3, 10 and 30 mg/kg, p.o., daily) inhibits VEGF driven tissue growth and angiogenesis[2].

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.

CAIndexNames:

Benzamide, 4-methyl-3-[[1-methyl-6-(3-pyridinyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]amino]-N-[3-(trifluoromethyl)phenyl]-

SMILES:

CC1=CC=C(C=C1NC2=NC(C3=CC=CN=C3)=NC4=C2C=NN4C)C(NC5=CC=CC(C(F)(F)F)=C5)=O

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