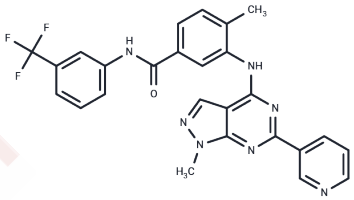
Data Sheet (Cat.No.T6348)

TargetMol

NVP-BHG712

Chemical Properties



CAS No. :	940310-85-0
Formula:	C26H20F3N7O
Molecular Weight:	503.48
Appearance:	no data available
Storage:	store at low temperature Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	NVP-BHG712 is a specific EphB4 inhibitor with ED50 of 25 nM that discriminates between VEGFR and EphB4 inhibition; also shows activity against c-Raf, c-Src and c-Abl with IC50 of 0.395 μM, 1.266 μM and 1.667 μM, respectively.
Targets(IC50)	Raf,Bcr-Abl,Ephrin Receptor,Src
In vitro	In a vascularization model induced by growth factors, NVP-BHG712 (3 mg/kg, p.o) significantly inhibited tissue formation and vascularization stimulated by VEGF through the suppression of EphB4 forward signaling. Additionally, NVP-BHG712 (10 mg/kg, oral administration) effectively reversed the VEGF-enhanced tissue formation and angiogenesis. NVP-BHG712 (3 mg/kg, orally) exhibited a sustained exposure in mouse plasma as well as lung and liver tissues for up to 8 hours at approximately 10 μM concentration, thereby resulting in long-lasting inhibition of EphB4 kinase activity.
In vivo	NVP-BHG712 exhibits dose-dependent inhibition of RTK autophosphorylation in A375 melanoma cells stably transfected, with EC50 values of 25 nM for EphB4 and 4.2 μM for VEGFR2.

Solubility Information

Solubility	DMSO: 24.7 mg/mL (49.06 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	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
50 mM	0.0397 mL	0.1986 mL	0.3972 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Martiny-Baron G, et al. Angiogenesis. 2010, 13(3), 259-267.