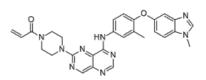


WWW.PROBECHEM.COM

Product Name	:	BI-4142
Cat. No.	:	PC-49226
CAS No.	:	2682003-36-5
Molecular Formula	:	C ₂₈ H ₂₇ N ₉ O ₂
Molecular Weight	:	521.57
Target	:	EGFR
Solubility	:	10 mM in DMSO

Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.



Biological Activity

BI-4142 (BI 4142) is a potent, selective, covalent and orally active **HER2** inhibitor with IC50 of 5 nM, potently inhibits HER2 exon 20 mutants while sparing WT EGFR.

BI-4142 (5 uM) inhibits the proliferation of HER2-dependent cell lines with IC50 values of 10 nM, 18 nM, 270 nM and 2400 nM against HEK HER2YVMA, Ba/F3 HER2YVMA, HEK EGFRWT and Ba/F3 EGFRWT, respectively.

BI-4142 dose-dependently decreases pHER2 and pERK levels in NCI-H2170 HER2YVMA and PC-9 HER2YVMA cells. BI-4142 inhibits tumor growth and inhibits oncogenic signaling in preclinical xenograft models of HER2 exon 20 mutant non-small cell lung cancer.

References

To C, et al. Nat Cancer. 2022 Apr;3(4):402-417.