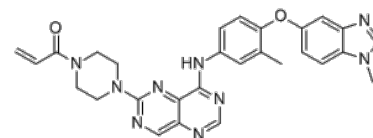


Product Name : BI-4142
Cat. No. : PC-49226
CAS No. : 2682003-36-5
Molecular Formula : C₂₈H₂₇N₉O₂
Molecular Weight : 521.57
Target : EGFR
Solubility : 10 mM in DMSO



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.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com