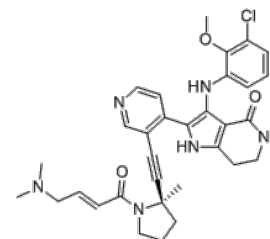


Product Name : STX-721
Cat. No. : PC-21322
CAS No. : 2765525-82-2
Molecular Formula : C₃₂H₃₅ClN₆O₃
Molecular Weight : 587.12
Target : EGFR
Solubility : 10 mM in DMSO

1. Milgram BC, *J Med Chem*. 2025 Jan 17. doi: 10.1021/acs.jmedchem.4c02377.



CAS: 2765525-82-2

Biological Activity

STX-721 is a potent, selective, irreversible, orally active inhibitor of **EGFR/HER2 ex20ins mutants** with IC₅₀ of 5.4 nM and 5.8 nM for cellular Ba/F3 EGFR ex20insASV and insSVD mutant activity, respectively.

STX-721 demonstrates excellent selectivity vs WT-EGFR (24- and 22-fold, respectively), approaching osimertinib's level of selectivity for EGFR L858R/T790 M (29-fold).

STX-721 retains good biochemical EGFR ex20insNPG activity, selectivity over WT-EGFR, and excellent kinome selectivity (S(10) at 3 μM = 0.027).

STX-721 (30 mg/kg BID) resulted in 52% TGI, while 100 mg/kg QD afforded 100% tumor regression over 7 days of dosing in mouse Ba/F3 EGFR ex20insASV allograft model, with minimal (<6%) body weight loss in the animals.

STX-721 dosed orally results in selective regression of EGFR ex20insSVD tumor xenografts relative to EGFR WT control xenografts.

References

