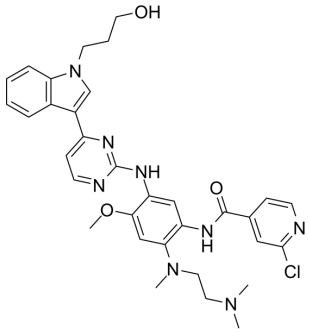
EGFR-IN-61

Cat. No.:	HY-147860
CAS No.:	2890261-81-9
Molecular Formula:	$C_{33}H_{37}ClN_8O_3$
Molecular Weight:	629.15
Target:	EGFR
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	EGFR-IN-61 (compound 22a) is a potent EGFR kinase inhibitor, with IC_{50} values of 42 nM (L858R/T790 M), 137 nM (L858R/T790 M/C797S), and 743 nM (WT), respectively. EGFR-IN-61 shows antiproliferative activity against A549 and H1975 cell lines, with IC_{50} values of 2.14 and 1.82 μM, respectively[1].		
IC_{50} & Target	$EGFR^{L858R/T790M}$ 42 ± 2 nM (IC_{50})	$EGFR^{L858R/T790M/C797S}$ 137 ± 6 nM (IC_{50})	EGFR (WT) 743 ± 20 nM (IC_{50})
In Vitro	EGFR-IN-61 (compound 22a) shows excellent kinase selectivity against the L858R/T790M/C797S mutant EGFR kinase rather than the wild-type, which reached 5.4 times[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

[1]. Ding S, et al. Design, synthesis and biological evaluation of novel osimertinib derivatives as reversible EGFR kinase inhibitors. Eur J Med Chem. 2022 Aug 5;238:114492.

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