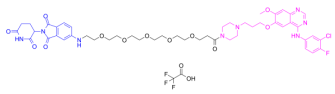
MS9427 TFA

Cat. No.:	HY-147941A
Molecular Formula:	$C_{50}H_{59}ClF_4N_8O_{14}$
Molecular Weight:	1107.5
Target:	PROTACs; EGFR
Pathway:	PROTAC; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description

MS9427 TFA is a potent PROTAC EGFR degrader with K_ds of 7.1 nM and 4.3 nM for EGFR WT and EGFR L858R, respectively. MS9427 TFA selectively degrades the mutant but not the WT EGFR through both the ubiquitin/proteasome system (UPS) and autophagy/lysosome pathways. MS9427 TFA potently inhibits the proliferation of NSCLC cells. MS9427 TFA can be used for researching anticancer[1].

In Vitro

MS9427 TFA has antiproliferative activity against HCC-827 cells, with a GI_{50} of 0.87 ± 0.27 μM[1].
MS9427 TFA (0-10 μM, 16 h) potently induces $EGFR^{Del19}$ degradation (DC_{50}=82 ± 73 nM) and inhibits EGFR phosphorylation (p-EGFR) in a concentration-dependent manner in HCC-827 cells[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	HCC-827 cells
Concentration:	1, 10, 50, 100, 200, 500, 100, and 10000 nM
Incubation Time:	16 h
Result:	Inhibited EGFR phosphorylation (p-EGFR) in a concentration-dependent manner in HCC-827 cells.

Western Blot Analysis[1]

Cell Line:	HCC-827 cells
Concentration:	100 nM
Incubation Time:	1, 2, 4, 6, 12, 24, 48 h
Result:	Induced EGFR degradation in a time-dependent manner and through the UPS and autophagy/lysosome system.

REFERENCES

[1]. Yu X, et al. Exploring Degradation of Mutant and Wild-Type Epidermal Growth Factor Receptors Induced by Proteolysis-Targeting Chimeras. J Med Chem. 2022 Jun 23;65(12):8416-8443.

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