## MS9427

®

MedChemExpress

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-147941 2772613-37-1 C <sub>48</sub> H <sub>58</sub> CIFN <sub>8</sub> O <sub>12</sub> 993.47 PROTACs; EGFR PROTAC; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK 4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)	and for the second s
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## SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.0066 mL	5.0329 mL	10.0657 mL
Stock Solutions	5 mM	0.2013 mL	1.0066 mL	2.0131 mL
	10 mM	0.1007 mL	0.5033 mL	1.0066 mL

BIOLOGICAL ACTIV	ТТҮ
Description	MS9427 is a potent PROTAC EGFR degrader with K <sub>d</sub> s of 7.1 nM and 4.3 nM for EGFR WT and EGFR L858R, respectively. MS9427 selectively degrades the mutant but not the WT EGFR through both the ubiquitin/proteasome system (UPS) and autophagy/lysosome pathways. MS9427 potently inhibits the proliferation of NSCLC cells. MS9427 can be used for researching anticancer <sup>[1]</sup> .
IC <sub>50</sub> & Target	EGFR (WT)         EGFR L858R           7.1 nM (Kd)         4.3 nM (Kd)
In Vitro	MS9427 has antiproliferative activity against HCC-827 cells, with a GI <sub>50</sub> of 0.87 ± 0.27 μM <sup>[1]</sup> . MS9427 (0-10 μM, 16 h) potently induces EGFR <sup>Del19</sup> degradation (DC <sub>50</sub> =82 ± 73 nM) and inhibits EGFR phosphorylation (p-EGFR) in a concentration-dependent manner in HCC-827 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis <sup>[1]</sup> 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 827 cells.
Western Blot Analysis <sup>[1]</sup>	
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.

Caution: Product has not been fully validated for medical applications. For research use only.

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