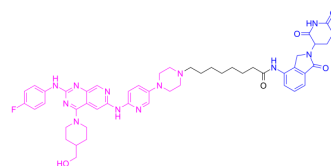


## PROTAC EGFR degrader 6

Cat. No.:	HY-146423
CAS No.:	2409793-28-6
Molecular Formula:	C <sub>49</sub> H <sub>57</sub> N <sub>12</sub> O <sub>5</sub>
Molecular Weight:	913.05
Target:	PROTACs; EGFR; Apoptosis
Pathway:	PROTAC; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	PROTAC EGFR degrader 6, a PROTAC EGFR degrader, potently degrades EGFR <sup>Del19</sup> in HCC827 cells with the DC <sub>50</sub> of 45.2 nM. PROTAC EGFR degrader 6 significantly induces the apoptosis of HCC827 cells and arrest the cells in G1 phase <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 180 nM (EGFR <sup>Del19</sup> in HCC827 cells) <sup>[1]</sup> DC <sub>50</sub> : 45.2 nM (EGFR <sup>Del19</sup> in HCC827 cells) <sup>[1]</sup>
<b>In Vitro</b>	<p>PROTAC EGFR degrader 6 (compound 2) (0.001-10 μM; 48 hours) exhibits potent EGFR degradation activity with certain concentration-dependent manner; and shows DC<sub>50</sub> of 45.2 nM in HCC827 cells<sup>[1]</sup>.</p> <p>PROTAC EGFR degrader 6 (100 nM; 4-96 hours) degrades EGFR protein in a time-dependent manner, and reaches the maximum degradation rate (D<sub>max</sub> = 87%) at 96 h<sup>[1]</sup>.</p> <p>PROTAC EGFR degrader 6 (0.1, 1 and 10 μM; 48 hours) shows weak degradation activity on EGFR in H1975 and A549 cells<sup>[1]</sup>.</p> <p>PROTAC EGFR degrader 6 (0.1 and 1 μM; 32 hours) induce HCC827 apoptosis, and the percentages of apoptosis cells are 53.72% and 32.31% at 0.1 and 1 μM, respectively<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

[1]. Hao Zhang, et al. Discovery of potent epidermal growth factor receptor (EGFR) degraders by proteolysis targeting chimera (PROTAC). Eur J Med Chem. 2020 Mar 1;189:112061.

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

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