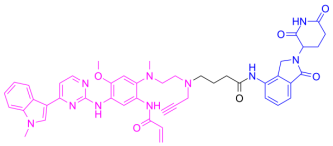
PROTAC EGFR degrader 7

Cat. No.:	HY-147858
Molecular Formula:	$C_{46}H_{48}N_{10}O_6$
Molecular Weight:	836.94
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

Description	PROTAC EGFR degrader 7 (compound 13b) is a potent and selective CRBN-recruiting PROTAC $EGFR^{L858R/T790M}$ degrader, with a DC_{50} of 13.2 nM. PROTAC EGFR degrader 7 inhibits NCI–H1975 cells proliferation, with an IC_{50} of 46.82 nM. PROTAC EGFR degrader 7 significantly induces apoptosis and G2/M phase arrest in NCI–H1975 cell. PROTAC EGFR degrader 7 shows antitumor activity, and can be used for non-small cell lung cancer (NSCLC) research[1]. PROTAC EGFR degrader 7 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.
IC_{50} & Target	$EGFR^{L858R/T790M}$ 13.2 nM (DC50)
In Vivo	PROTAC EGFR degrader 7 (compound 13b) (BALB/c mice bearing NCI–H1975 cells, 10 mg/kg, IP, once a day for 24 days) effectively and selectively inhibits NCI–H1975 xenograft tumor growth, with the tumor growth inhibition (TGI%) of 63.7%[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zhang W, et al. Discovery of highly potent and selective CRBN-recruiting EGFRL858R/T790M degraders in vivo. Eur J Med Chem. 2022 Aug 5;238:114509.

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