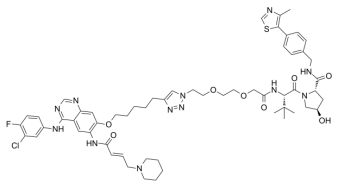
PROTAC EGFR degrader 2

Cat. No.:	HY-144304
CAS No.:	3031336-58-7
Molecular Formula:	$C_{58}H_{72}ClFN_{12}O_8S$
Molecular Weight:	1151.78
Target:	EGFR; PROTACs
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; PROTAC
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (86.82 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	0.8682 mL	4.3411 mL	8.6822 mL
5 mM	0.1736 mL	0.8682 mL	1.7364 mL
10 mM	0.0868 mL	0.4341 mL	0.8682 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (2.17 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PROTAC EGFR degrader 2 is a potent PROTAC EGFR degrader. PROTAC EGFR degrader 2 exhibits excellent antiproliferative activity with IC_{50} of 4.0 nM and good EGFR degradation activity with DC50 of 36.51 nM. PROTAC EGFR degrader 2 can be used for the synthesis of nitroreductase (NTR)-responsive PROTAC[1].

IC_{50} & Target

EGFR
36.51 nM (DC50)

REFERENCES

[1]. Shi S, et al. Rational Design for Nitroreductase (NTR)-Responsive Proteolysis Targeting Chimeras (PROTACs) Selectively Targeting Tumor Tissues. J Med Chem. 2022;65(6):5057-5071.

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

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