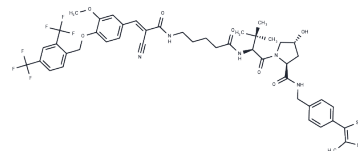


PROTAC ERR α Degradar-3
Chemical Properties

CAS No. : 2306388-65-6
 Formula: C47H50F6N6O7S
 Molecular Weight: 957.0
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year


Biological Description

Description	PROTAC ERR α Degradar-3 is a highly effective and selective von Hippel-Lindau-based ligand that efficiently degrades the ERR α protein. At a concentration of 30 nM, this compound exhibits a remarkable degradation capability, reducing the ERR α protein levels by >80%. Importantly, PROTAC ERR α Degradar-3 shows no activity against the ERR β and ERR γ proteins.
Targets(IC50)	PROTACs
In vitro	PROTAC ERR α Degradar-3 (compound 6c; 0.3 nM-10 μ M; 4 hours) effectively induces the degradation of ERR α in a dose-dependent manner, achieving significant degradation with doses as low as 3.0 nM within 4 hours. This compound also significantly reduces the levels of ERR α downstream target genes, such as ATP5B, medium-chain acyl CoA dehydrogenase (MCAD), and pyruvate dehydrogenase kinase 4 (PDK4), in MDA-MB-231 cells following 24 hours of exposure. Furthermore, PROTAC ERR α Degradar-3 disrupts the protein-protein interaction between ERR α and the PGC-1 α peptide, marked by an IC50 of 12.67 nM, and induces approximately 96% degradation of the ERR α protein at a concentration of 100 nM after 4 hours. Western Blot analysis in MDA-MB-231 cells across a range of concentrations (0.3 nM to 10 μ M) and a 4-hour incubation period corroborates the dose-dependent mechanism of ERR α degradation.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0449 mL	5.2247 mL	10.4493 mL
5 mM	0.209 mL	1.0449 mL	2.0899 mL
10 mM	0.1045 mL	0.5225 mL	1.0449 mL
50 mM	0.0209 mL	0.1045 mL	0.209 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Lijie Peng, et al. Identification of New Small-Molecule Inducers of Estrogen-related Receptor α (ERR α) Degradation. ACS Med Chem Lett. 2019 Apr 12;10(5):767-772.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481