PROTAC ERα Degrader-2

Cat. No.: HY-111846

CAS No.: 1351169-29-3

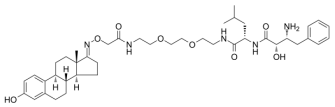
Molecular Formula: $C_{42}H_{61}N_5O_8$

Molecular Weight: 763.96

Target: SNIPERs; PROTACs; Estrogen Receptor/ERR

Pathway: PROTAC; Others

Storage: -20°C, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 200 mg/mL (261.79 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.3090 mL	6.5448 mL	13.0897 mL
5 mM	0.2618 mL	1.3090 mL	2.6179 mL
10 mM	0.1309 mL	0.6545 mL	1.3090 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: ≥ 5 mg/mL (6.54 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 5 mg/mL (6.54 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PROTAC ERα Degrader-2 comprises a IAP ligand binding group, a linker and an estrogen receptor α (ERα) binding group. PROTAC ERα Degrader-2 is an ERα degrader. Maximal ERα degradation at 30 μM concentration in human mammary tumor MCF7 cells. Degradation inducers based on cIAP1 are called specific and non-genetic IAP-dependent protein erasers (SNIPERs)[1].

IC_{50} & Target		
	ERα	cIAP1

REFERENCES

[1]. Scheepstra M, et al. Bivalent Ligands for Protein Degradation in Drug Discovery. Comput Struct Biotechnol J. 2019 Jan 25;17:160-176.

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