PROTAC AR Degrader-4

Cat. No.: HY-111848

CAS No.: 1351169-31-7

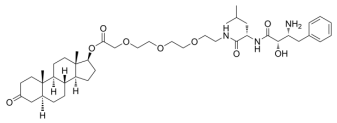
Molecular Formula: $C_{43}H_{67}N_3O_9$

Molecular Weight: 770.01

Target: SNIPERs; PROTACs; Androgen Receptor

Pathway: PROTAC; Vitamin D Related/Nuclear Receptor

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 200 mg/mL (259.74 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.2987 mL	6.4934 mL	12.9868 mL
	5 mM	0.2597 mL	1.2987 mL	2.5974 mL
	10 mM	0.1299 mL	0.6493 mL	1.2987 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 (6.49 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 5 mg/mL (6.49 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

PROTAC AR Degrader-4 comprises a IAP ligand binding group, a linker and an Androgen Receptor (AR) binding group. PROTAC AR Degrader-4 is an AR degrader. Degradation inducers based on cIAP1 are called specific and non-genetic IAP-dependent protein erasers (SNIPERs)[1].

IC_{50} & Target

cIAP1

In Vitro

Specific and Nongenetic IAPs-dependent Protein Erasers (SNIPERs) are bifunctional compounds which are designed by conjugating an IAPs-recognition structure with a target protein-recognition structure.
Targeting proteins for degradation involves three steps.
1, its two recognition structures allow SNIPER to form a complex linking IAPs, which have E3 ligase activity, with the target protein.

2, the target protein is polyubiquitinated by IAPs.

3, the polyubiquitinated protein is degraded by proteasome.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Itoh Y, et al. Design, synthesis and biological evaluation of nuclear receptor-degradation inducers. Bioorg Med Chem. 2011 Nov 15;19(22):6768-78.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA