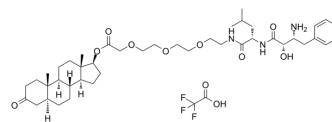


PROTAC AR Degradar-4 TFA

Cat. No.:	HY-111848A
Molecular Formula:	C ₄₅ H ₆₈ F ₃ N ₃ O ₁₁
Molecular Weight:	884.03
Target:	SNIPERS; PROTACs; Androgen Receptor
Pathway:	PROTAC; Vitamin D Related/Nuclear Receptor
Storage:	-20°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (113.12 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.1312 mL	5.6559 mL	11.3118 mL
		5 mM		0.2262 mL	1.1312 mL	2.2624 mL
10 mM		0.1131 mL	0.5656 mL	1.1312 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 (5.66 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 5 mg/mL (5.66 mM); Suspended solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	PROTAC AR Degradar-4 comprises a IAP ligand binding group, a linker and an Androgen Receptor (AR) binding group. PROTAC AR Degradar-4 is an AR degrader. Degradation inducers based on cIAP1 are called specific and non-genetic IAP-dependent protein erasers (SNIPERS) ^[1] .
IC₅₀ & 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.

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

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