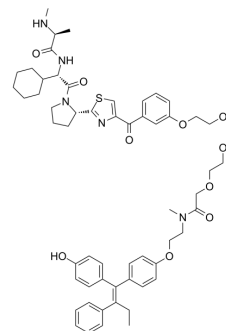


SNIPER(ER)-87

Cat. No.:	HY-129619
CAS No.:	2222354-91-6
Molecular Formula:	C ₅₉ H ₇₃ N ₅ O ₁₀ S
Molecular Weight:	1044.3
Target:	SNIPERs; Estrogen Receptor/ERR
Pathway:	PROTAC; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SNIPER(ER)-87 consists of an inhibitor of apoptosis protein (IAP) ligand LCL161 derivative that is conjugated to the estrogen receptor α (ER α) ligand 4-hydroxytamoxifen by a PEG linker, and efficiently degrades the ER α protein (IC ₅₀ =0.097 μ M). SNIPER(ER)-87 preferentially recruits XIAP to ER α in the cells, and XIAP is the primary E3 ubiquitin ligase responsible for the SNIPER(ER)-87-induced ER α degradation ^{[1][2]} .
In Vitro	SNIPER(ER)-87 (0.1-1000 nM; 72 hours) efficiently inhibits the ER α -dependent transcriptional activation by β -estradiol and suppresses the growth of ER α -positive breast tumor cells with IC ₅₀ s of 15.6 nM in MCF-7 and 9.6 nM in T47D cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	SNIPER(ER)-87 (30 mg/kg, i.p., every 24 h for 14 days) inhibits the growth of MCF-7 orthotopic breast tumor xenografts in 6-week-old female BALB/c nude mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ohoka N, et al. In Vivo Knockdown of Pathogenic Proteins via Specific and Nongenetic Inhibitor of Apoptosis Protein (IAP)-dependent Protein Erasers (SNIPERs). *J Biol Chem.* 2017 Mar 17;292(11):4556-4570.

[2]. Ohoka N, et al. Derivatization of inhibitor of apoptosis protein (IAP) ligands yields improved inducers of estrogen receptor α degradation. *J Biol Chem.* 2018 May 4;293(18):6776-6790.

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

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