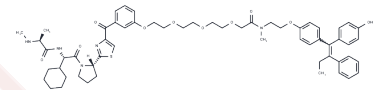


SNIPER(ER)-87

Chemical Properties

CAS No. :	2222354-91-6
Formula:	C ₅₉ H ₇₃ N ₅ O ₁₀ S
Molecular Weight:	1044.32
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	SNIPER(ER)-87 is a chemical compound composed of a derivative of the inhibitor of apoptosis protein (IAP) ligand LCL161 conjugated to the estrogen receptor α (ER α) ligand 4-hydroxytamoxifen using a PEG linker. It effectively degrades the ER α protein with an IC ₅₀ value of 0.097 μ M. Within cells, SNIPER(ER)-87 selectively recruits XIAP to ER α , and XIAP functions as the primary E3 ubiquitin ligase responsible for the degradation of ER α induced by SNIPER(ER)-87[1][2].
Targets(IC ₅₀)	Estrogen Receptor/ERR,Others,SNIPERs
In vitro	SNIPER(ER)-87, at concentrations ranging from 0.1 to 1000 nM over 72 hours, effectively suppresses ER α -dependent transcriptional activation induced by β -estradiol and inhibits the proliferation of ER α -positive breast cancer cells, achieving IC ₅₀ values of 15.6 nM in MCF-7 cells and 9.6 nM in T47D cells[1].
In vivo	SNIPER(ER)-87, administered intraperitoneally at a dosage of 30 mg/kg every 24 hours for a duration of 14 days, effectively suppresses the development of MCF-7 orthotopic breast tumor xenografts in six-week-old female BALB/c nude mice[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9576 mL	4.7878 mL	9.5756 mL
5 mM	0.1915 mL	0.9576 mL	1.9151 mL
10 mM	0.0958 mL	0.4788 mL	0.9576 mL
50 mM	0.0192 mL	0.0958 mL	0.1915 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

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.

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:34 Washington Street,Wellesley Hills,MA 02481