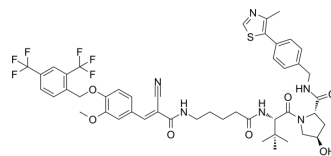


PROTAC ERR α Degradator-3

Cat. No.:	HY-139185	
CAS No.:	2306388-65-6	
Molecular Formula:	C ₄₇ H ₅₀ F ₆ N ₆ O ₇ S	
Molecular Weight:	956.99	
Target:	PROTACs; Estrogen Receptor/ERR	
Pathway:	PROTAC; Others	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 80 mg/mL (83.60 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	1.0449 mL	5.2247 mL	10.4494 mL
			5 mM	0.2090 mL	1.0449 mL	2.0899 mL
			10 mM	0.1045 mL	0.5225 mL	1.0449 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: \geq 2 mg/mL (2.09 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	PROTAC ERR α Degradator-3 is a potent and selective ERR α degrader based on von Hippel-Lindau ligand. PROTAC ERR α Degradator-3 is capable of specifically degrading ERR α protein by >80% at a concentration of 30 nM. PROTAC ERR α Degradator-3 is inactive against ERR β and ERR γ proteins ^[1] .	
IC ₅₀ & Target	ERR α	VHL
In Vitro	<p>PROTAC ERRα Degradator-3 (compound 6c; 0.3 nM-10 μM; 4 hours) dose-dependently induces ERRα degradation with an efficacious dose as low as 3.0 nM at 4.0 h. PROTAC ERRα Degradator-3 potently decreases protein levels of ERRα downstream target genes, e.g., ATP5B, medium-chain acyl CoA dehydrogenase (MCAD), and pyruvate dehydrogenase kinase 4 (PDK4) in the MDA-MB-231 cells after a 24 h treatment^[1].</p> <p>PROTAC ERRα Degradator-3 exhibits an IC₅₀ value of 12.67 nM to block the protein-protein interaction of ERRα with PGC-1α peptide and induces approximately 96% protein degradation at 100 nM (D100 nM) after 4.0 h treatment^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	

Western Blot Analysis^[1]

Cell Line:	MDA-MB-231 cells
Concentration:	0.3 nM, 1 nM, 3 nM, 10 nM, 30 nM, 100 nM, 300 nM, 1 μ M, 3 μ M, 10 μ M
Incubation Time:	4 hours
Result:	Dose-dependently induced ERR α degradation.

REFERENCES

[1]. Lijie Peng, et al. Identification of New Small-Molecule Inducers of Estrogen-related Receptor α (ERR α) Degradation. ACS Med Chem Lett. 2019 Apr 12;10(5):767-772.

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

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