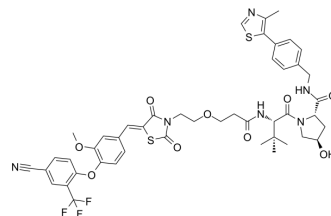


PROTAC_ERRα

Cat. No.:	HY-147174
CAS No.:	1801547-15-8
Molecular Formula:	C ₄₆ H ₄₇ F ₃ N ₆ O ₉ S ₂
Molecular Weight:	949.03
Target:	Epigenetic Reader Domain
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PROTAC_ERRα is a potent and selective ERRα degrader. PROTAC_ERRα induces proteasomal degradation and has capable of specifically degrading ERRα protein by >80% ^[1] .								
In Vitro	<p>PROTAC_ERRα (0-1000 nM; 8 hours; MCF7 cells) down-regulates ERRα protein levels in a dose-dependent fashion^[1]. PROTAC_ERRα (100-500 nM; 4-24 hours; MCF7 cells) possesses good selectivity for ERRα target and decreases protein levels of ERRα downstream target genes^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MCF7 cells</td> </tr> <tr> <td>Concentration:</td> <td>0, 10, 30, 100, 300 and 1000 nM</td> </tr> <tr> <td>Incubation Time:</td> <td>8 hours</td> </tr> <tr> <td>Result:</td> <td>Decreased in ERRα level in a dose-dependent fashion and the maximal level of degradation (D₅₀) is 86%.</td> </tr> </table>	Cell Line:	MCF7 cells	Concentration:	0, 10, 30, 100, 300 and 1000 nM	Incubation Time:	8 hours	Result:	Decreased in ERRα level in a dose-dependent fashion and the maximal level of degradation (D ₅₀) is 86%.
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In Vivo	<p>PROTAC_ERRα (100 mg/kg; i.p.; every eight hours) degrades ERRα level in vivo^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Female CD-1 mice^[1]</td> </tr> <tr> <td>Dosage:</td> <td>100 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Intraperitoneal injection ; every eight hours.</td> </tr> <tr> <td>Result:</td> <td>Reduced ERRα levels in mouse heart and kidney and MDA-MB-231 tumors by approximately 44%, 44% and 39%, respectively.</td> </tr> </table>	Animal Model:	Female CD-1 mice ^[1]	Dosage:	100 mg/kg	Administration:	Intraperitoneal injection ; every eight hours.	Result:	Reduced ERRα levels in mouse heart and kidney and MDA-MB-231 tumors by approximately 44%, 44% and 39%, respectively.
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REFERENCES

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

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