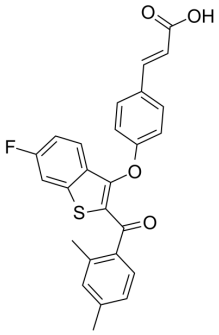
ER degrader 4

Cat. No.:	HY-149969
CAS No.:	2913192-39-7
Molecular Formula:	$C_{26}H_{19}FO_4S$
Molecular Weight:	446.49
Target:	Estrogen Receptor/ERR
Pathway:	Vitamin D Related/Nuclear Receptor
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

ER degrader 4 is a selective and orally active estrogen receptor degrader. ER degrader 4 has anti-tumor activity[1].

In Vitro

ER degrader 4 (Compound 22h) inhibits MCF-7 cell proliferation with an IC_{50} of 0.20 μM[1].
ER degrader 4 (1 nM-10 μM, 24 h) degrades ER in MCF-7 cells dose-dependently[1].
ER degrader 4 (10 μM, 24 h) decreases the gene expression levels of GREB1, PGR, and TFF1 in MCF-7 cells[1].
ER degrader 4 (10 μM, 24 h) arrests MCF-7 cells in G0/G1 phase[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[7]

Cell Line:	MCF-7 cell
Concentration:	1 nM, 100 nM, 1 μM and 10 μM
Incubation Time:	24 h
Result:	Degraded ER dose-dependently, shows maximum degradation at 10 μM.

In Vivo

ER degrader 4 (Compound 22h) (30 mg/kg, oral gavage) inhibits tumor growth in a MCF-7 xenograft model[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	MCF-7 xenograft model[3]
Dosage:	30 mg/kg
Administration:	Oral gavage
Result:	Significantly inhibited tumor growth with no significant body weight loss. Reduces protein level of Ki67, ER, and PR in resected xenograft tumors.

REFERENCES

[1]. Xie YQ, et al. Design, synthesis and structure-activity relationship of novel oxime ether strobilurin derivatives containing substituted benzofurans. Pest Manag Sci. 2015

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