ER degrader 5

®

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| Cat. No.: | HY-149970 |
|--------------------|---|
| CAS No.: | 2913192-47-7 |
| Molecular Formula: | C ₂₆ H ₁₈ F ₂ O ₄ S |
| Molecular Weight: | 464.48 |
| Target: | Estrogen Receptor/ERR |
| Pathway: | Vitamin D Related/Nuclear Receptor |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |

о҉он

| Description | ER degrader 5 is a potent e be used for the research of | estrogen receptor (ER) degrader. ER degrader 5 shows anti-proliferation activity. ER degrader 5 can f breast cancer ^[1] . |
|-------------|---|---|
| In Vitro | ER degrader 5 (compound 27d) (5 days) inhibits the proliferation of MCF-7 cells, with an IC ₅₀ of 55 nM ^[1] . ER degrader 5 blocks the cell cycle at the G0/G1 phase in MCF-7 cells ^[1] . ER degrader 5 (1 nM-10 μM; 24 h) degrades estrogen receptor (ER) in MCF-7 cells ^[1] . ER degrader 5 (1-10 μM; 24 h) drastically decreases the expression levels of GREB1, PGR, and TFF1 in MCF-7 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1] | |
| | Cell Line: | MCF-7 cells |
| | Concentration: | 1, 10, 100, 10000 nM |
| | Incubation Time: | 24 hours |
| | Result: | Degraded ER in a dose-dependent manner. |
| | Real Time qPCR ^[1] | |
| | Cell Line: | MCF-7 cells |
| | Concentration: | 1, 5, 10 μΜ |
| | Incubation Time: | 24 hours |
| | Result: | Decreased the expression levels of GREB1, PGR, and TFF1 in a dose-dependent manner. |
| In Vivo | ER degrader 5 (compound model ^[1] . ER degrader 5 (3 mg/kg; i.v ER degrader 5 (30 mg/kg; p MCE has not independentl | 27d) (30 mg/kg; i.p. daily for 30 days) significantly inhibits tumor growth in a MCF-7 xenograft v.) exhibits half-life of 1.23 h, C _{max} of 4497 ng/mL ^[1] . p.o.) produces an oral bioavailability of 62.9% ^[1] . ly confirmed the accuracy of these methods. They are for reference only. |

| Animal Model: | Female nude mice injected with MCF-7 cells ^[1] |
|-----------------|--|
| Dosage: | 30 mg/kg |
| Administration: | I.p. daily for 30 days |
| Result: | Inhibited tumor growth and observed no significant body weight loss. |

REFERENCES

[1]. Lu Y, et, al. Design, synthesis and biological evaluation of fluorinated selective estrogen receptor degraders (FSERDs) --- A promising strategy for advanced ER positive breast cancer. Eur J Med Chem. 2023 May 5;253:115324.

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

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