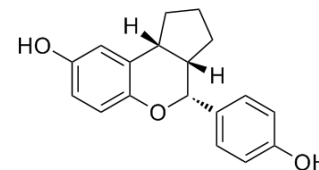


Erteberel

Cat. No.:	HY-18295
CAS No.:	533884-09-2
Molecular Formula:	C ₁₈ H ₁₈ O ₃
Molecular Weight:	282.33
Target:	Estrogen Receptor/ERR
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	Erteberel (LY500307) is a potent and selective estrogen receptor beta (ER β) inhibitor with K _i and EC ₅₀ of 1.54 nM and 3.61 nM, respectively ^[1] . Anti-tumor activities ^[2] .									
IC₅₀ & Target	ER β 1.54 nM (K _i)	ER β 3.61 nM (EC ₅₀)								
In Vitro	<p>Treatment with Erteberel (0.25-10 μM, 72 hours) significantly reduces the proliferation of GBM cells with no activity on normal astrocytes in vitro^[2].</p> <p>Erteberel promotes apoptosis of GBM cells. Erteberel modulated several pathways related to apoptosis, cell cycle, and DNA damage response^[2].</p> <p>Erteberel (0-1000 μM) sensitizes GBM cells to several FDA-approved chemotherapeutic drugs including cisplatin, lomustine and temozolomide^[2].</p> <p>Cell Viability Assay^[2]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>U87, U251, T98G and normal astrocytes</td> </tr> <tr> <td>Concentration:</td> <td>0.25, 0.5, 1, 2, 4, 6, 8, and 10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>72 h</td> </tr> <tr> <td>Result:</td> <td>Treatment with Erteberel significantly reduces the viability of various GBM cell lines in adose-dependent manner. In contrast, viability of normal astrocytes is not affected at the tested doses, suggesting that Erteberel has tumor cell-specific activity^[2].</td> </tr> </table>		Cell Line:	U87, U251, T98G and normal astrocytes	Concentration:	0.25, 0.5, 1, 2, 4, 6, 8, and 10 μ M	Incubation Time:	72 h	Result:	Treatment with Erteberel significantly reduces the viability of various GBM cell lines in adose-dependent manner. In contrast, viability of normal astrocytes is not affected at the tested doses, suggesting that Erteberel has tumor cell-specific activity ^[2] .
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In Vivo	<p>Erteberel (5 mg/Kg body weight/day, oral, 28 days) treatment significantly reduces tumor growth and promotes apoptosis of GBM tumors in an orthotopic model^[2].</p> <p>Erteberel (5 mg/Kg body weight/day, oral, 40-50 days) treatment improves the overall survival of tumor-bearing mice in the GL26 syngeneic glioma model^[2].</p>									

Animal Model:	Athymic mice (5-7 weeks) inoculated with OVCAR-3 cells ^[2]
Dosage:	5mg/Kg body weight
Administration:	Oral, daily for 28 days
Result:	Immunohistochemical analysis reveals that Erteberel treatment significantly reduces the number of proliferation marker Ki-67-positive cells and increases the number of TUNEL-positive apoptotic cells ^[2] .

REFERENCES

- [1]. Zhao L, et al. Pharmacological activation of estrogen receptor beta augments innate immunity to suppress cancer metastasis. Proc Natl Acad Sci U S A. 2018 Apr 17;115(16):E3673-E3681.
- [2]. Sareddy GR, et al. Selective Estrogen Receptor β Agonist LY500307 as a Novel Therapeutic Agent for Glioblastoma. Sci Rep. 2016 Apr 29;6:24185.

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

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