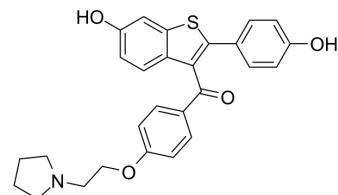


LY117018

Cat. No.:	HY-116896
CAS No.:	63676-25-5
Molecular Formula:	C ₂₇ H ₂₅ NO ₄ S
Molecular Weight:	459.56
Target:	Estrogen Receptor/ERR
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	LY117018, a Raloxifene analog, is a selective estrogen receptor modulator. LY117018 exerts antiproliferative effects on breast cancer cell lines ^{[1][2]} .								
IC₅₀ & Target	Estrogen receptor								
In Vitro	<p>LY117018 (0.01-1000 nM; 24 hours) at lower concentrations (0.01-10 nM) caused an E2-like increase in p53 levels when compared to its effects on cells grown in the stripped medium. At a higher concentration of LY117018 (1 μM), the level of p53 appeared to decline. Treatment with 1 μM LY117018 resulted in a predominantly hypophosphorylated pRb. At lower concentrations, LY117018 did not block E2-induced pRb phosphorylation^[1].</p> <p>LY117018 (1 μM; 96 hours) inhibits MCF-7 cells proliferation with an IC₅₀ of 1 μM^[2].</p> <p>LY117018 suppresses oxidative stress-induced endothelial cell apoptosis through activation of ERK1/2 signaling pathway^[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Proliferation Assay^[2]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MCF-7 cells</td> </tr> <tr> <td>Concentration:</td> <td>1 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>96 hours</td> </tr> <tr> <td>Result:</td> <td>Inhibited MCF-7 cells proliferation with an IC₅₀ of 1 μM.</td> </tr> </table>	Cell Line:	MCF-7 cells	Concentration:	1 μM	Incubation Time:	96 hours	Result:	Inhibited MCF-7 cells proliferation with an IC ₅₀ of 1 μM.
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Concentration:	1 μM								
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Result:	Inhibited MCF-7 cells proliferation with an IC ₅₀ of 1 μM.								

REFERENCES

- [1]. Dinda S, et al. Effects of LY117018 (a SERM analog of raloxifene) on tumor suppressor proteins and proliferation of breast cancer cells. *Horm Mol Biol Clin Investig.* 2010 Aug 1;2(1):211-7.
- [2]. Baumann KH, et al. Effects of celecoxib and ly117018 combination on human breast cancer cells in vitro. *Breast Cancer (Auckl).* 2009 Apr 7;3:23-34.
- [3]. Yu J, et al. Raloxifene analogue LY117018 suppresses oxidative stress-induced endothelial cell apoptosis through activation of ERK1/2 signaling pathway. *Eur J Pharmacol.* 2008 Jul 28;589(1-3):32-6.

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

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