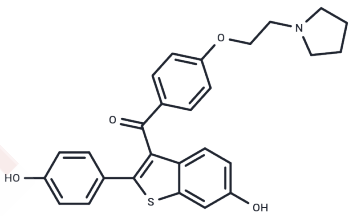
# Data Sheet (Cat.No.T15800)

TargetMol

LY117018

## Chemical Properties



CAS No. : 63676-25-5

Formula: C27H25NO4S

Molecular Weight: 459.56

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

## Biological Description

| | |
|---|---|
| Description | LY117018 shows antiproliferative effects on breast cancer cell lines. LY117018 is a Raloxifene analog and is a selective estrogen receptor modulator. |
| Targets(IC50) | Estrogen Receptor/ERR,PI3K |
| In vitro | LY117018 (1 μM) treatment, caused a predominantly hypophosphorylated pRb. At a higher concentration of LY117018 (1 μM), the level of p53 appeared to decline. 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. LY117018 did not block E2-induced pRb phosphorylation, at lower concentrations[1]. LY117018 (1 μM; 96 hours) suppresses MCF-7 cell proliferation with an IC50 of 1 μM[2]. LY117018 inhibits oxidative stress-induced endothelial cell apoptosis through activation of ERK1/2 signaling pathway[3]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.176 mL | 10.880 mL | 21.7599 mL |
| 5 mM | 0.4352 mL | 2.176 mL | 4.352 mL |
| 10 mM | 0.2176 mL | 1.088 mL | 2.176 mL |
| 50 mM | 0.0435 mL | 0.2176 mL | 0.4352 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.
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.
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.



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