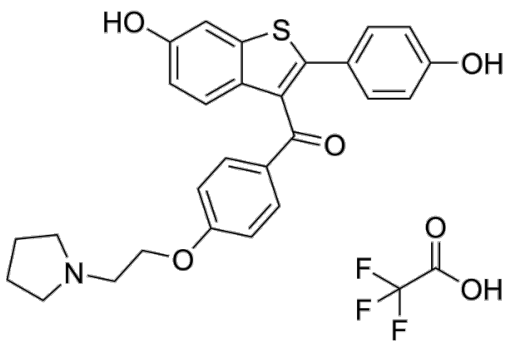
# Product Data Sheet

Product Name: LY117018 TFA
Cat. No.: GC72874

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | 2390041-98-0 | | |
| Formula | $C_{29}H_{26}F_3NO_6S$ | M.Wt | 573.58 |
| Solubility | DMSO : 100 mg/mL (174.34 mM; Need ultrasonic) | Storage | 4°C, sealed storage, away from moisture |
| General tips | For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months. | | |
| Shipping Condition | Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request. | | |

Structure




## Background

LY117018 TFA, a Raloxifene analog, is a selective estrogen receptor modulator. LY117018 TFA exerts antiproliferative effects on breast cancer cell lines.

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 pophosphorylated pRb. At lower concentrations, LY117018 did not block E2-induced pRb phosphorylation[1].LY117018 (1 μM; 96 hours) inhibits MCF-7 cells proliferation with an IC50 of 1 μM[2].LY117018 suppresses oxidative stress-induced endothelial cell apoptosis through activation of ERK1/2 signaling pathway[3].

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.