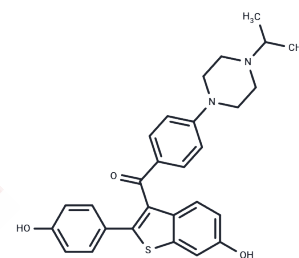


Y134

Chemical Properties

CAS No. : 849662-80-2
 Formula: C₂₈H₂₈N₂O₃S
 Molecular Weight: 472.6
 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	Y134 is an estrogen receptor inhibitor that is selective and orally active, exhibiting strong antagonist activity against ER α and ER β with Ki of 0.09 nM and 11.31 nM, respectively. The selectivity of Y134 for ER α is 121.1 times higher than that for ER β . Y134 inhibited the proliferation of ER positive human breast cancer cells stimulated by estrogen.
Targets(IC50)	Estrogen Receptor/ERR
In vitro	Y134 displays robust antagonistic effects on estrogen receptors (ERs) in CV-1 cells co-transfected with plasmids carrying ER α or ER β along with estrogen-response element-driven luciferase, resulting in a significant decrease in luciferase activity.[1] Treatment with Y134 (0.01 nM-10 μ M; 6 d) effectively suppresses the proliferation of ER-expressing breast cancer cells (MCF-7 and T47D) stimulated by estrogen.[1]
In vivo	Administration of Y134 (1-3 mg/kg/day; p.o. for 3 days) completely eliminates the estrogen-induced growth of terminal end buds (TEB) in the mammary glands of ovariectomized rats. Y134 exhibits a dose-dependent inhibition of uterine cell proliferation induced by estrogen (E2). [1]

Solubility Information

Solubility	DMSO: 47.26 mg/mL (100 mM),Sonication is recommended. Ethanol: 47.26 mg/mL (100 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2 mg/mL (4.23 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.116 mL	10.5798 mL	21.1595 mL
5 mM	0.4232 mL	2.116 mL	4.2319 mL
10 mM	0.2116 mL	1.058 mL	2.116 mL
50 mM	0.0423 mL	0.2116 mL	0.4232 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

Ning M, et al. Biological activities of a novel selective oestrogen receptor modulator derived from raloxifene (Y134). Br J Pharmacol. 2007;150(1):19-28.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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