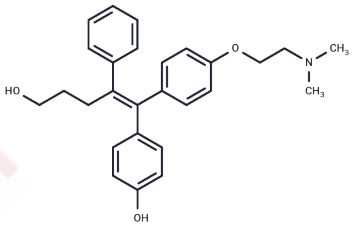
Data Sheet (Cat.No.T8370)

TargetMol

GSK5182

Chemical Properties



CAS No. : 877387-37-6

Formula: C27H31NO3

Molecular Weight: 417.54

Storage: Keep away from direct sunlight,Store under nitrogen
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	GSK5182 is a highly selective inverse estrogen-related receptor γ agonist (IC50：79 nM)
Targets(IC50)	Estrogen Receptor/ERR,Estrogen/progestogen Receptor,Reactive Oxygen Species,ROS
In vitro	Small interfering RNA (siRNA)-mediated knockdown of ERRγ (siRNA-ERRγ) or an ERRγ inverse agonist, GSK5182, were also used to examine the effects of ERRγ inhibition on the proliferation and growth of a human hepatoma cell line, PLC/PRF/5[1].
In vivo	a hyperinsulinemic-euglycemic clamp study and long-term studies of the antidiabetic effects of GSK5182, the ERRγ-specific inverse agonist, in db/db and DIO mice demonstrated that GSK5182 normalizes hyperglycemia mainly through inhibition of hepatic glucose production[2].
Cell Research	Cell Line:The human hepatoma cell line PLC/PRF/5. Concentration:0 μM, 10 μM, 20 μM. Incubation Time:0 hour, 24 hours, 48 hours, 72 hours

Solubility Information

Solubility	DMSO: 80 mg/mL (191.6 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.395 mL	11.9749 mL	23.9498 mL
5 mM	0.479 mL	2.395 mL	4.790 mL
10 mM	0.2395 mL	1.1975 mL	2.395 mL
50 mM	0.0479 mL	0.2395 mL	0.479 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

Kim JH, et al. Estrogen-related receptor γ is upregulated in liver cancer and its inhibition suppresses livercancer cell proliferation via induction of p21 and p27. Exp Mol Med. 2016 Mar 4;48:e213.
Kim DK, et al. Inverse agonist of nuclear receptor ERRγ mediates antidiabetic effect through inhibition of hepatic gluconeogenesis. Diabetes. 2013 Sep;62(9):3093-102.

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