

RFRP-3, mouse

Chemical Properties

CAS No. :

Formula: C91H141N29O25S

Molecular Weight: 2073.34

Keep away from moisture

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	RFRP-3, mouse is a functional analog of avian Gonadotropin-Inhibitory Hormone (GnIH) that binds to GPR147. It reduces progesterone synthesis by inhibiting FSHR and key steroidogenic enzymes (P450scc, 3 β -HSD, StAR). RFRP-3, mouse induces apoptosis by increasing p53 and can inhibit the ERK signaling pathway. Additionally, RFRP-3 is applicable in follicle development research.
Targets(IC50)	ERK
In vitro	RFRP-3, at concentrations of 10-1000 ng/mL over 24 hours, significantly reduces progesterone secretion in mouse ovarian granulosa cells without affecting estradiol secretion. It inhibits steroidogenesis and FSHR by suppressing p450scc, 3 β -HSD, StAR, and FSHR expression. Additionally, RFRP-3 induces apoptosis by decreasing Bcl-2 protein levels and increasing p53 protein expression at moderate doses. It also inhibits the ERK signaling pathway, specifically p-ERK1/2 proteins, within these cells.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4823 mL	2.4116 mL	4.8231 mL
5 mM	0.0965 mL	0.4823 mL	0.9646 mL
10 mM	0.0482 mL	0.2412 mL	0.4823 mL
50 mM	0.0096 mL	0.0482 mL	0.0965 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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