

Data Sheet (Cat.No.TP1112)

LH-RH, salmon

Chemical Properties

CAS No.:	86073-88-3
Formula:	C60H73N15O13
Molecular Weight:	1212.31
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Luteinizing Hormone Releasing Hormone (LH-RH) is a pituitary Hormone synthesized in the hypothalamus and plays a crucial role in the control of reproductive function.
In vitro	Luteinizing hormone-releasing hormone (LHRH) is the key hormone in the control of reproductive functions. LHRH acts as an antimitogenic factor through the activation of the Gi-cAMP intracellular signaling pathway. LHRH might act as an inhibitory factor on both cell proliferation and metastatic behavior in melanoma cells[1]. The hypothalamic decapeptide luteinizing hormone-releasing hormone (LHRH) plays a central role in the control of reproduction by stimulating the release of pituitary luteinizing hormone (LH) and follicle-stimulating hormone (FSH), which in turn promote gonadal functions and regulate sex steroid secretion. The effects of LHRH are mediated by high-affinity G protein-coupled LHRH-receptor (LHRH-R) on pituitary gonadotropes. The responses to LHRH vary under different conditions and critically depend on the regimens of administration and doses delivered to gonadotrope cells[2].

Solubility Information

Solubility	H2O: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.825 mL	4.124 mL	8.249 mL
5 mM	0.165 mL	0.825 mL	1.65 mL
10 mM	0.082 mL	0.412 mL	0.825 mL
50 mM	0.016 mL	0.082 mL	0.165 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Moretti RM, et al. Inhibitory activity of luteinizing hormone-releasing hormone on tumor growth and progression. *Endocr Relat Cancer*. 2003 Jun;10(2):161-7.

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