

LH-RH, salmon acetate(86073-88-3 free base)

## Chemical Properties

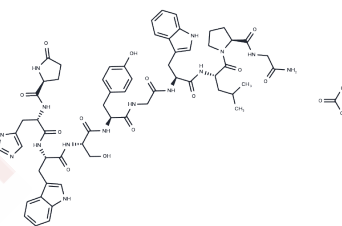
CAS No. :

Formula: C62H77N15O15

Molecular Weight: 1272.35

Storage: Keep away from moisture  
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	LH-RH, salmon acetate(86073-88-3 free base) (Luteinizing Hormone Releasing Hormone (LH-RH), salmon acetate) is a pituitary Hormone synthesized in the hypothalamus and plays a crucial role in the control of reproductive function.
Targets(IC50)	Others
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	DMSO: 10 mM,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.7859 mL	3.9297 mL	7.8595 mL
5 mM	0.1572 mL	0.7859 mL	1.5719 mL
10 mM	0.0786 mL	0.393 mL	0.7859 mL
50 mM	0.0157 mL	0.0786 mL	0.1572 mL

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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

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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