

Luteinizing Hormone Releasing Hormone (LH-RH), salmon

Cat. No.:	HY-P0243
CAS No.:	86073-88-3
Molecular Formula:	C ₆₀ H ₇₃ N ₁₅ O ₁₃
Molecular Weight:	1212.31
Sequence:	{Glp}-His-Trp-Ser-Tyr-Gly-Trp-Leu-Pro-Gly-NH ₂
Sequence Shortening:	{Glp}-HWSYGWLPG-NH ₂
Target:	GnRH Receptor
Pathway:	GPCR/G Protein
Storage:	Sealed storage, away from moisture and light Powder -80°C 2 years -20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

BIOLOGICAL ACTIVITY

Description	Luteinizing Hormone Releasing Hormone (LH-RH), salmon (Salmon GnRH) is the hypophysiotropic decapeptide synthesized in the hypothalamus that plays a crucial role in the control of reproductive functions.
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] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [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.
- [2]. Horvath JE, et al. Effects of long-term treatment with the luteinizing hormone-releasing hormone (LHRH) agonist Decapeptyl and the LHRH antagonist Cetrorelix on the levels of pituitary LHRH receptors and their mRNA expression in rats. *Proc Natl Acad Sci U S A*. 2002 Nov 12;99(23):15048-53.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA