

Recombinant Human GNRH1, His-tagged

Cat. No. GNRH1-219H **Lot. No.** (See product label)

SPECIFICATION

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|-------------------------|---|
| Product Overview | GNRH1, 24-92aa, Human, His tag, E.coli |
| Species | Human |
| Source | E.coli |
| ProteinLength | 24-92aa |
| Description | <p>GNRH1 is secreted and then cleaved to form the 10 aa luteinizing hormone-releasing hormone (LHRH, also known as gonadoliberin-1), and prolactin release-inhibiting factor (also known as GnRH-associated peptide 1). GNRH1 stimulates the release of luteinizing and follicle stimulating hormones, which are important for reproduction. The protein stimulates the secretion of gonadotropins; it stimulates the secretion of both luteinizing and follicle-stimulating hormones. Recombinant human GNRH1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.</p> |
| Form | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT |
| Molecular Mass | 10.3 kDa (92aa) confirmed by MALDI-TOF |
| AA Sequence | MGSSHHHHHH SSGLVPRGSH MGSQHWSYGL RPGGKRDAEN LIDSFQEIVK EVGQLAETQR FECTTHQPRS PLRDLKGALE SLIEEETGQK KI |

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|-------------------------|--|
| Purity | >90% by SDS - PAGE |
| Storage | Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles. |
| Concentration | 0.5 mg/ml (determined by Bradford assay) |
| GENE INFORMATION | |
| Gene Name | GNRH1 gonadotropin-releasing hormone 1 (luteinizing-releasing hormone) [Homo sapiens] |
| Official Symbol | GNRH1 |
| Synonyms | GNRH1; gonadotropin-releasing hormone 1 (luteinizing-releasing hormone); GNRH, gonadotropin releasing hormone 1 (leutinizing releasing hormone) , GRH, LHRH; progonadoliberin-1; luliberin I; progonadoliberin I; GnRH-associated peptide 1; prolactin release-inhibiting factor; gonadotropin-releasing hormone 1 (leutinizing-releasing hormone); GRH; GNRH; LHRH; LNRH; |
| Gene ID | 2796 |
| mRNA Refseq | NM_000825 |
| Protein Refseq | NP_000816 |
| MIM | 152760 |
| UniProt ID | P01148 |
| Chromosome | 8p21-p11.2 |

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|-----------------|---|
| Location | |
| Pathway | Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; GnRH signaling pathway, organism-specific biosystem; GnRH signaling pathway, conserved biosystem; Hormone ligand-binding receptors, organism-specific biosystem; |
| Function | gonadotropin hormone-releasing hormone activity; hormone activity; |

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