

# Recombinant Human GNRH1, His-tagged

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | GNRH1, 24-92aa, Human, His tag, E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | 24-92aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | <p>GNRH1 is secreted and then cleaved to form the 10 aa luteinizing hormone-releasing hormone (LHRH, also known as gonadoliberein-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> |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | 10.3 kDa (92aa) confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | <p>MGSSHHHHHH SSGLVPRGSH MGSQHWSYGL RPGGKRDAEN LIDSFQEIVK<br/> EVGQLAETQR FECTTHQPRS PLRDLKGALE SLIEEETGQK KI</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|                      |                                                                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>        | >90% by SDS - PAGE                                                                                                                                 |
| <b>Storage</b>       | 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. |
| <b>Concentration</b> | 0.5 mg/ml (determined by Bradford assay)                                                                                                           |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | GNRH1 gonadotropin-releasing hormone 1 (luteinizing-releasing hormone) [ Homo sapiens ]                                                                                                                                                                                                                                                                                    |
| <b>Official Symbol</b> | GNRH1                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>        | 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; |
| <b>Gene ID</b>         | 2796                                                                                                                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>     | NM_000825                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>  | NP_000816                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MIM</b>             | 152760                                                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>      | P01148                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Chromosome</b>      | 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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