

Recombinant Human GNRH1, His-tagged

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

SPECIFICATION

Product Overview	GNRH1, 24-92aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	24-92aa
Description	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.
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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