

Recombinant Full Length Human GNRHR Protein

Cat. No. GNRHR-5412HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GNRHR full-length ORF (ADR83139.1) recombinant protein without tag.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	379 amino acids
Description	This gene encodes the receptor for type 1 gonadotropin-releasing hormone. This receptor is a member of the seven-transmembrane, G-protein coupled receptor (GPCR) family. It is expressed on the surface of pituitary gonadotrope cells as well as lymphocytes, breast, ovary, and prostate. Following binding of gonadotropin-releasing hormone, the receptor associates with G-proteins that activate a phosphatidylinositol-calcium second messenger system. Activation of the receptor ultimately causes the release of gonadotropic luteinizing hormone (LH) and follicle stimulating hormone (FSH). Defects in this gene are a cause of hypogonadotropic hypogonadism (HH). Alternative splicing results in multiple transcript variants encoding different isoforms. More than 18 transcription initiation sites in the 5' region and multiple polyA signals in the 3' region have been identified for this gene. [provided by RefSeq]
Form	Liquid
Molecular Mass	36.1 kDa
AA Sequence	MANSASPEQNQNHC SAINNSIPLMQGNLPTLTLSGKIRVTVTFFLFLLSATFNASFL

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KLQKWTQKKEKGKKLSRMKLLLKHLTLANLLETIVMPLDGMWNITVQWYAGELLCK
VLSYLKLFMYAPAFMMVVISLDRSLAITRPLALKSNSKVGQSMVGLAWILSSVFAGP
QLYIFRMIHLADSSGQTKVFSQCVTHCSFSQWWHQAFFYNFFTFSCLFIIPLFIMLICNA
KIIFTLTRVLHQDPHELQLNQSKNNIPRARLKTLMKMTVAFATSFTVCWTPYYVLGIWY
WFDPEMLNRLSDPVNHFFFLFAFLNPCFDPLIYGYSFL

Applications

Antibody Production
Functional Study
Compound Screening

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 25 mM Tris-HCl of pH8.0 containing 2% glycerol.

GENE INFORMATION

Gene Name [GNRHR gonadotropin-releasing hormone receptor \[Homo sapiens \]](#)

Official Symbol [GNRHR](#)

Synonyms GNRHR; gonadotropin-releasing hormone receptor; GRHR; LHRHR; gnRH-R; gnRH receptor; luteinizing hormone releasing hormone receptor; leutinizing-releasing hormone receptor; leutinizing hormone releasing hormone receptor; gonadotropin-releasing hormone (type 1) receptor 1; LRHR; GNRHR1;

Gene ID [2798](#)

mRNA Refseq [NM_000406](#)

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Protein Refseq	NP_000397
MIM	138850
UniProt ID	P30968

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