

# Product Information

## Magic™ Membrane Protein Human GNRHR (Gonadotropin releasing hormone receptor)

### Expressed *in vitro* E.coli expression system, Full Length

Cat. No.: **MPX3336K**

This product is for research use only and is not intended for diagnostic use.

This product is a Human GNRHR membrane protein expressed *in vitro* E.coli expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### Host Species

Human

#### Target Protein

GNRHR

#### Protein Length

Full Length

#### Protein Class

GPCR

#### TMD

7

#### Sequence

MANSASPEQNQNHC SAINNSIPLMQGNLPTLTLSGKIRVTVTFFLFLLSATFNASFLLKLQKWTQKKEKGK  
KLSRMKLLKHLTLANLLETIVMPLDGMWNITVQWYAGELLCKVLSYKLFSMYAPAFMMVVISLDRSL  
AITRPLALKSNSKVGQSMVGLAWILSSVFAGPQLYIFRMIHLADSSGQTKVFSQCVTHCSFSQWWHQA FY  
NFFTFSCLFIIPLFIMLICNAKIIFTLTRVLHQDPHELQLNQSKNNIPRARLKTLMKMTVAFATSFTVCWT  
PYYVLGIWYWFDPEMLNRLSDPVNHFFFLFAFLNPCFDPLIYGYFSL

### Product Description

#### Expression Systems

*in vitro* E.coli expression system

#### Tag

10xHis tag at the N-terminus

#### Protein Format

Soluble

#### Form

Liquid or Lyophilized powder

**Buffer**

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

**Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

**Target****Target Protein**

GNRHR

**Full Name**

Gonadotropin releasing hormone receptor

**Introduction**

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.

**Alternative Names**

GNRHR; HH7; GRHR; LRHR; LHRHR; GNRHR1; gnRH receptor; gnRH-R; gonadotropin-releasing hormone (type 1) receptor 1; leutinizing hormone releasing hormone receptor; leutinizing-releasing hormone receptor; luliberin receptor; type I GnRH receptor; Gonadotropin releasing hormone receptor

**Gene ID**

[2798](#)

**UniProt ID**

[P30968](#)