

Product datasheet

Recombinant Human GnRH protein ab112295

1 Image

Overview

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**Product name** Recombinant Human GnRH protein  
**Protein length** Full length protein

Description

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**Nature** Recombinant  
**Source** Wheat germ

Amino Acid Sequence

**Accession** [P01148](#)  
**Species** Human  
**Sequence** MKPIQKLLAGLILLTWCVEGCSSQHWSYGLRPGGKRDAENLIDSFQEMK  
 EVGQLAETQRFECTTHQPRSPLRDLKGALESLEEETGQKKI  
**Molecular weight** 36 kDa including tags  
**Amino acids** 1 to 92  
**Tags** GST tag N-Terminus

Specifications

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Our [Abpromise guarantee](#) covers the use of **ab112295** in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Biological activity** useful for Antibody Production and Protein Array  
**Applications** ELISA  
 SDS-PAGE  
 Western blot  
**Form** Liquid  
**Additional notes** useful for Antibody Production and Protein Array

Preparation and Storage

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**Stability and Storage** Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 8.00

Constituents: 0.79% Tris HCl, 0.31% Glutathione

Note: Glutathione is reduced

## General Info

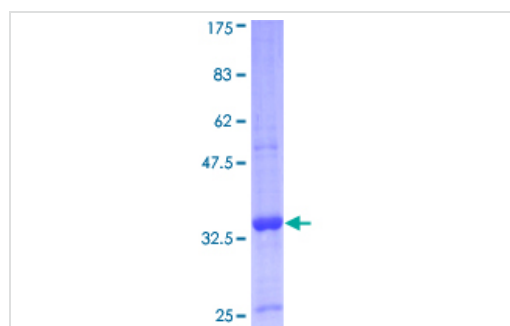
### Relevance

Gonadotropin releasing hormone (GnRH), also known as luteinizing hormone releasing hormone (LHRH), is a key molecule in the regulation of reproduction in vertebrates. GnRH, a decapeptide, is produced by neurons in the medial basal hypothalamus (MBH) and secreted in a pulsatile manner into the cardiovascular system. The frequency and amplitude of GnRH pulses determine secretion of follicle stimulating hormone (FSH) and luteinizing hormone (LH) from the pituitary. Higher frequencies (greater than one pulse per hour) stimulate LH secretion while lower frequencies stimulate FSH secretion. The generation of GnRH pulses is effected by numerous stimuli, such as neural, hormonal and environmental. Therefore, behavioral and physiological conditions such as sleep, exercise, and stress can affect the GnRH pulses and cause a disruption of the normal cycle. Recent studies show that GnRH also has a role in mediating cancer. GnRH has been shown to inhibit the growth of human uterine leiomyoma cells by suppressing proliferation and inducing apoptosis. GnRH analogs have been used to treat a wide variety of reproductive cancers, although the side effects of using such compounds are often quite severe.

### Cellular localization

Secreted

## Images



ab112295 analysed on a 12.5% SDS-PAGE  
stained with Coomassie Blue.

SDS-PAGE - Recombinant Human GnRH protein  
(ab112295)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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