

GNRH2 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	LH-RHII;gonadotropin releasing hormone 2;GnRH-II;GNRH2
Protein Construction:	A DNA sequence encoding the human GNRH2 (NP_001492.1) (Gln24-Val120) was expressed with the Fc region of human IgG1 at the N-terminus. Predicted N terminal: Glu
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O43555-1
Molecular Weight:	39 kDa (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

GNRH2 (Gonadotropin-Releasing Hormone 2) is a Protein Coding gene. This gene is a member of the gonadotropin-releasing hormone (GnRH) gene family. Proteins encoded by members of this gene family are proteolytically cleaved to form neuropeptides which, in part, regulate reproductive functions by stimulating the production and release of the gonadotropins follicle-stimulating hormone (FSH) and luteinizing hormone (LH). 3 alternatively spliced human isoforms have been reported. The second mammalian isoform (GNRH2) is an

ineffective stimulant of gonadotropin release. Given that pigs lack testicular GNRHR1, these data may indicate that GNRH2 and its receptor are involved in the autocrine or paracrine regulation of testosterone secretion. Diseases associated with GNRH2 include Colon Mucinous Adenocarcinoma and Ovarian Cancer.

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