

Growth Hormone R/GHR Protein, Human (HEK293, hFc)

Cat. No.:	HY-P72024
Synonyms:	Somatotropin receptor Serum-binding protein;
Species:	Human
Source:	HEK293
Accession:	P10912 (A27-Y264)
Gene ID:	2690
Molecular Weight:	Approximately 66 kDa

PROPERTIES

AA Sequence	<pre> A I L S R A P W S L Q S V N P G L K T N S S K E P K F T K C R S P E R E T F S C H W T D E V H H G T K N L G P I Q L F Y T R R N T Q E W T Q E W K E C P D Y V S A G E N S C Y F N S S F T S I W I P Y C I K L T S N G G T V D E K C F S V D E I V Q P D P P I A L N W T L L N V S L T G I H A D I Q V R W E A P R N A D I Q K G W M V L E Y E L Q Y K E V N E T K W K M M D P I L T T S V P V Y S L K V D K E Y E V R V R S K Q R N S G N Y G E F S E V L Y V T L P Q M S Q F T C E E D F Y </pre>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized GH1 at 1 µg/mL can bind human GHR and the EC ₅₀ of human GHR protein is 7.006-11.72 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Growth Hormone R (GHR) functions as the receptor for pituitary gland growth hormone, playing a pivotal role in the regulation of postnatal body growth. Upon binding to its ligand, GHR activates the JAK2/STAT5 pathway, facilitating the intracellular signaling cascade. Additionally, the soluble form of the receptor, known as GHBP (Growth Hormone Binding Protein), serves as a reservoir for growth hormone in the bloodstream. GHBP may also exert modulatory or inhibitory effects
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on growth hormone signaling, contributing to the intricate regulation of growth processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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