

Growth Hormone R/GHR Protein, Rat (HEK293, His)

Cat. No.:	HY-P73089
Synonyms:	Growth hormone receptor; GH receptorGHBP; Ghr
Species:	Rat
Source:	HEK293
Accession:	P16310-1 (F19-R265)
Gene ID:	25235
Molecular Weight:	35-45 kDa

PROPERTIES

AA Sequence	<pre> F P G S G A T P A T L G K A S P V L Q R I N P S L R E S S S G K P R F T K C R S P E L E T F S C Y W T E G D D H N L K V P G S I Q L Y Y A R R I A H E W T P E W K E C P D Y V S A G A N S C Y F N S S Y T S I W I P Y C I K L T T N G D L L D E K C F T V D E I V Q P D P P I G L N W T L L N I S L P G I R G D I Q V S W Q P P P S A D V L K G W I I L E Y E I Q Y K E V N E T K W K T M S P I W S T S V P L Y S L R L D K E H E V R V R S R Q R S F E K Y S E F S E V L R V T F P Q M D T L A A C E E D F R </pre>
Biological Activity	Measured by its ability to inhibit GH-induced proliferation of Nb2-11 rat lymphoma cells. The ED ₅₀ of this effect is 0.5495 ng/mL in the presence of 0.2 ng/mL GH, corresponding to a specific activity is 1.8198×10 ⁶ units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, 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	The Growth Hormone R (GHR) protein functions as a receptor for pituitary gland growth hormone, playing a crucial role in the regulation of postnatal body growth. Upon binding with its ligand, GHR couples to and activates the JAK2/STAT5 signaling pathway. Additionally, the soluble form of GHR, known as GHBP (Growth Hormone Binding Protein), serves as a
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reservoir for growth hormone in the plasma and may function as a modulator or inhibitor of growth hormone signaling. The dynamic interplay between GHR and growth hormone underscores its pivotal role in the intricate regulation of physiological processes related to body growth.

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

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