

Growth Hormone R/GHR Protein, Rhesus macaque (HEK293, Fc)

Cat. No.:	HY-P78726
Synonyms:	GHR; GHBP; GH receptor
Species:	Rhesus Macaque
Source:	HEK293
Accession:	P79194-1 (F19-Y264)
Gene ID:	697986
Molecular Weight:	65-93 kDa band in SDS-PAGE under reducing conditions due to the glycosylation.

PROPERTIES

AA Sequence	<pre> F S G S E P T A A I L S R A S 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 A V H H G S K S L G P I Q L F Y T R R N I Q G Q 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 V W I P Y C I K L T S N G D T V D G 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 L V R W E A P P 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 S T S V P V Y S L K V D K E Y E V L V R S K R R N S R N Y G E F S E V L Y V T L P Q M N Q F T C E E D F Y </pre>
Biological Activity	Measured in a cell proliferation assay using NB2-11 cells. The ED ₅₀ for this effect is 0.8665 ng/mL in the presence of 0.2 ng/mL of rhGH, corresponding to a specific activity is 1.15×10 ⁶ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized a 0.22 μm filtered solution of 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH 7.5.
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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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 GHR protein, a receptor for pituitary gland growth hormone, plays a crucial role in regulating postnatal body growth. Upon binding to its ligand, GHR activates the JAK2/STAT5 pathway, thereby initiating downstream signaling events.
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Additionally, the soluble form of GHR, known as GHBP, functions as a reservoir for growth hormone in the plasma and may serve as a modulator or inhibitor of GH signaling.

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

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