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

Cat. No.:	HY-P73087
Synonyms:	Growth hormone receptor; GH receptorGHBP; Ghr
Species:	Mouse
Source:	HEK293
Accession:	P16882/NP_034414.2 (T25-Q273)
Gene ID:	14600
Molecular Weight:	40-45 kDa

PROPERTIES

AA Sequence	T P A T L G K A S P V L Q R I N P S L G T 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 N P D L K T P G S I Q L Y Y A K R E S Q R Q A A R I A H E W T Q E W K E C P D Y V S A G K 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 Q 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 T G I R G D I Q V S W Q P P P N A D V L K G W I I L E Y E I Q Y K E V N E S K W K V M G P I W L T Y C P V Y S L R M 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 I F P Q T N I L E A C E E D I Q
Biological Activity	Measured by its ability to inhibit GH-induced proliferation of Nb2-11 rat lymphoma cells. The ED_{50} of this effect is 1.455 ng/mL in the presence of 0.2 ng/mL GH, corresponding to a specific activity is 6.87×10^5 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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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 Protein functions as the receptor for pituitary gland growth hormone, playing a crucial role in the regulation of postnatal body growth. Upon ligand binding, it couples to and activates the JAK2/STAT5 pathway, facilitating downstream signaling events involved in growth regulation. Notably, the soluble form of the receptor, known as GHBP,

serves as a reservoir of growth hormone in plasma and exhibits the potential to modulate or inhibit GH signaling, thereby adding a layer of complexity to the finely tuned control of growth processes. The dual role of Growth Hormone R/GHR in mediating growth hormone actions and modulating its signaling highlights its significance in the intricate regulatory mechanisms governing postnatal growth.

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