

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

Cat. No.:	HY-P73086
Synonyms:	Growth hormone receptor; GH receptorGHBP; Ghr
Species:	Mouse
Source:	HEK293
Accession:	P16882 (M1-Q273)
Gene ID:	14600
Molecular Weight:	70-80 kDa

### PROPERTIES

AA Sequence	<pre> MDLCQVFLTL  ALAVTSSTFS  GSEATPATLG  KASPVLQRIN PSLGTSSSGK  PRFTKCRSPE  LETFSCYWTE  GDNPD LKTPG SIQLYYAKRE  SQRQAARIAH  EWTQEWKECP  DYVSAGKNSC YFNSSYTSIW  IPYCIKLTNN  GDLLDQKCFT  VDEIVQPDPP IGLNWTL LNI  SLTGIRGDIQ  VSWQPPPNAD  VLKGWIILEY EIQYKEVNES  KWKVMGPIWL  TYCPVYSLRM  DKEHEVRVRS RQRSFEKYSE  FSEVLRVIFP  QTNILEACEE  DIQ           </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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 <sub>2</sub> 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 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
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mediating growth hormone actions and modulating its signaling highlights its significance in the intricate regulatory mechanisms governing postnatal growth.

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

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