# Growth Hormone R/GHR Protein, Rat (HEK293, Fc)

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| **Cat. No.:** | HY-P73088 |
| **Synonyms:** | Growth hormone receptor; GH receptorGHBP; Ghr |
| **Species:** | Rat |
| **Source:** | HEK293 |
| **Accession:** | P16310-1 (F19-R265) |
| **Gene ID:** | 25235 |
| **Molecular Weight:** | Approximately 66 kDa |

## PROPERTIES

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| **AA Sequence** | M D L W R V F L T L A L A V S S D M F P G S G A T P A T L G K A S P V L Q R I N<br>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<br>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<br>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<br>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<br>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<br>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 |
| **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. |
| **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

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| **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 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 |

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| | processes related to body growth. |

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

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