

Active Recombinant Mouse Growth Hormone Receptor, Fc-tagged

Cat. No. Ghr-5620M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Ghrprotein was expressed in Murine myeloma cell line with the Fc part of humanIgG1 Pro100-Lys330and Thr25-Gln273 & Ile98-Gln273 (N-terminus).
Species	Mouse
Source	Mammalian Cells
ProteinLength	25-273;98-273 a.a.
Description	Ghr, also known assomatotropin, is a member of a family of growth factors that includesprolactin, placental lactogens, proliferins and somatolactin. It issynthesized primarily by somatotropes in the anterior pituitary and isreleased as an endocrine hormone. Other cells and tissues, including lymphoidtissues, can also produce Ghr. Ghr is a pleiotropic molecule which can actdirectly or indirectly via IGFI to regulate growth and metabolism as well asenhance T cell survival and thymic functions.
Form	Lyophilized from a0.2 µm filtered solution in PBS.
N-terminalSequence	Thr25 & Ile98
Molecular Weight	55.4 kDa
Activity	Measuredby its ability to inhibit Ghinduced proliferation of Nb2-11 rat lymphomacells. Gout, P.W. et al. (1980) Cancer Res. 40:2433. The ED50 for this effectis typically 4-

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	16 ng/mL in the presence of 0.2 ng/mL of rhGhr.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	70-75kDa, reducing conditions
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Ghr growth hormone receptor [Mus musculus]
Official Symbol	Ghr
Synonyms	Ghr; growth hormone receptor; GHBP; GHR/BP; AA986417; GH receptor; somatotropin receptor; growth hormone receptor/binding protein; Growth hormone receptor precursor (GH receptor) (GH binding protein) (GHBP) (Serum binding protein); Uncharacterized protein; mCG_141048
Gene ID	14600
mRNA Refseq	NM_010284
Protein Refseq	NP_034414

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UniProt ID	Q3UP14
Chromosome Location	15 A1; 15 4.6 cM
Pathway	Androgen Receptor SignalingPathway; Cytokine-cytokine receptor interaction; Endochondral Ossification;Jak-STAT signaling pathway; Neuroactive ligand-receptor interaction
Function	SH2 domain binding;cytokine receptor activity; growth factor binding; growth hormone receptoractivity; peptide hormone binding; protein binding; protein homodimerizationactivity; protein kinase binding; protein phosphatase binding; receptoractivity
PDBrendering based on 1a22.	