

# Active Recombinant Mouse Growth Hormone Receptor, Fc-tagged

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Ghrprotein was expressed in Murine myeloma cell line with the Fc part of humanIgG1 Pro100-Lys330and Thr25-Gln273 & Ile98-Gln273 (N-terminus).
<b>Species</b>	Mouse
<b>Source</b>	Mammalian Cells
<b>ProteinLength</b>	25-273;98-273 a.a.
<b>Description</b>	Ghr, also known as somatotropin, is a member of a family of growth factors that includes prolactin, placental lactogens, proliferins and somatotactin. It is synthesized primarily by somatotropes in the anterior pituitary and is released as an endocrine hormone. Other cells and tissues, including lymphoid tissues, can also produce Ghr. Ghr is a pleiotropic molecule which can act directly or indirectly via IGF1 to regulate growth and metabolism as well as enhance T cell survival and thymic functions.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in PBS.
<b>N-terminalSequence</b>	Thr25 & Ile98
<b>Molecular Weight</b>	55.4 kDa
<b>Activity</b>	Measured by its ability to inhibit Ghr-induced proliferation of Nb2-11 rat lymphoma cells. Gout, P.W. et al. (1980) Cancer Res. 40:2433. The ED50 for this effect is typically 4-

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	16 ng/mL in the presence of 0.2 ng/mL of rhGhr.
<b>Endotoxin Level</b>	<1.0 EU per 1 µg of the protein by the LAL method.
<b>SDS-PAGE</b>	70-75kDa, reducing conditions
<b>Purity</b>	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Reconstitution</b>	Reconstitute at 100 µg/mL in sterile PBS
<b>Storage</b>	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

<b>Gene Name</b>	Ghr growth hormone receptor [Mus musculus ]
<b>Official Symbol</b>	Ghr
<b>Synonyms</b>	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
<b>Gene ID</b>	14600
<b>mRNA Refseq</b>	NM_010284
<b>Protein Refseq</b>	NP_034414

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>UniProt ID</b>	Q3UP14
<b>Chromosome Location</b>	15 A1; 15 4.6 cM
<b>Pathway</b>	Androgen Receptor SignalingPathway; Cytokine-cytokine receptor interaction; Endochondral Ossification;Jak-STAT signaling pathway; Neuroactive ligand-receptor interaction
<b>Function</b>	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
<b>PDBrendering based on 1a22.</b>	

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA