

Somatotropin (GH1) Active Protein | GH1 active protein

Recombinant Human Somatotropin (GH1) (Active)

CATALOG #
AAA243730

HOST
Mammalian cell

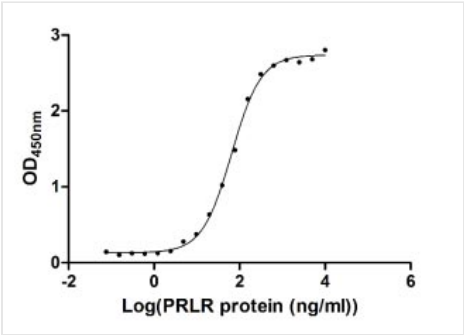
PRODUCT SYNONYMS

Somatotropin (GH1); Recombinant Human Somatotropin (GH1) (Active); Growth hormone; GH; GH-N; Growth hormone 1; Pituitary growth hormone; GH1 active protein

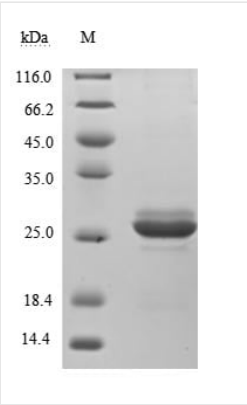
PRODUCT SPECIFICATIONS

Host	Mammalian cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized from a 0.2 um filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
Sequence Positions	27-217aa; Full Length of Mature Protein
Sequence	FPTIPLSRLF DNAMLRHRL HQLAFDTYQE FEEAYIPKEQ KYSFLQNPQT SLCFSESIPT PSNREETQQK SNLELLRISL LLIQSWLEPV QFLRSVFANS LYGASDSNV YDLLKDLEEG IQTLMGRLED GSPRTGQIFK QTYSKFDTNS HNDDALLKNY GLLYCFRKDM DKVETFLRIV QCRSVEGSCG F
Sequence Length	217
Species	Human
Tag	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Endotoxin	Less than 1.0 EU/ug as determined by LAL method.
Biological Activity	1. Measured by its binding ability in a functional ELISA. Immobilized GH1 at 1 ug/ml can bind human PRLR , the EC50 of the protein is 60.71-69.65 ng/ml. 2. Measured by its binding ability in a functional ELISA. Immobilized GH1 at 1 ug/ml can bind human GHR , the EC50 of the protein is 19.28-25.29 ng/ml.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Preparation and Storage	Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.

IMAGES



Bioactivity



SDS-PAGE
Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

ADDITIONAL INFORMATION

Product Categories/Family for GH1 active protein	Developmental Biology
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NCBI AND UNIPROT INFORMATION

NCBI GI #	134703
NCBI GeneID	2688
UniProt Accession #	P01241
Molecular Weight	27.2 kDa
NCBI Official Full Name	Somatotropin
NCBI Official Synonym Full Names	growth hormone 1
NCBI Official Symbol	GH1
NCBI Official Synonym Symbols	GH; GHN; GH-N; GHB5; IGHD2; hGH-N; IGHD1A; IGHD1B
NCBI Protein Information	somatotropin
UniProt Protein Name	Somatotropin
UniProt Gene Name	GH1
UniProt Synonym Gene Names	GH; GH-N
UniProt Entry Name	SOMA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mammalian-cell-active-protein/somatotropin-gh1/243730>