

Recombinant Human Growth Hormone 1, His-tagged

Cat. No. GH1-382H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GH1 is a protein composed of 22.9 kDa, 205 amino residues and it contains a 6-His-tag at the N-terminal end and is purified by sequential chromatography.
Species	Human
Description	GH1 is a member of the somatotropin / prolactin family of hormones which play an important role in growth control.
Form	Lyophilized from a PBS 0.05M buffer at pH 7.5.
Purity	> 97% by SDS-PAGE gel
M.W	22.9 kDa
Endotoxin Level	< 0.04 EU/μg protein (LAL method)
Sequence	HHHHHHFPTIPLSRPFDNAMLRAHRLHQLAFDITYQEFEEAYIPKEQKYSFLQNPQTS LCFSES IPTSPNREE TQQKSNLELLRISLLLIQSWLEPVQFLRSVFANSLVYGASDSN VYDLLKDLEEGIQ TLMGRLEDGSPRTGQIF KQTYSKFDTNSHNDDALLKNYGLLYCF RKDMDKVETFLRIVQCRSVEGSCGFAG
p.I	5.98
Extinction coeff	E0.1% = 0.77 (A 280nm)

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Reconstitution Recommendation	Lyophilized proteins should be reconstituted in water to a concentration of 50 ng/μl.
Biological Activity	ED50 ≤ 0.04-0.1ng/mL. The biological activity of human Growth Hormone is measured by cell proliferation using Nb2-11 cells.
Storage	This lyophilized preparation is stable at 2-8°C. For long storage should be kept at -20°C and it is recommended to add a carrier protein (0.1% HAS or BSA). Repeated freezing and thawing is not recommended.
Official Symbol	GH1
Pathways	Adipogenesis; Cytokine Signaling in Immune system; Cytokine-cytokine receptor interaction; Diabetes pathways; Endochondral Ossification; Growth hormone receptorsignaling; Immune System; Jak-STAT signaling pathway; Neuroactive ligand-receptor interaction; Synthesis, Secretion, and Deacylation of Ghrelin

GENE INFORMATION

Gene Name	GH1 growth hormone 1 [Homosapiens]
Synonyms	GH1; growth hormone 1; GH; GHN; GH-N; hGH-N; IGHD1B; somatotropin; pituitary growth hormone; Somatotropin; Growth hormone; Growth hormone 1; Pituitary growth hormone
Gene ID	2688
mRNA Refseq	NM_000515
Protein Refseq	NP_000506

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MIM	139250
UniProt ID	P01241
Chromosome Location	17q22-q24
Function	growth factor activity; growth hormone receptor binding; hormone activity; metal ion binding; prolactin receptor binding; protein binding
Growth hormone	

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