

Recombinant Human GH1 Protein, C-His-tagged

Cat. No. GH1-05H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GH1 Protein with a C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	The protein encoded by this gene is a member of the somatotropin/prolactin family of hormones which play an important role in growth control. The gene, along with four other related genes, is located at the growth hormone locus on chromosome 17 where they are interspersed in the same transcriptional orientation; an arrangement which is thought to have evolved by a series of gene duplications. The five genes share a remarkably high degree of sequence identity. Alternative splicing generates additional isoforms of each of the five growth hormones, leading to further diversity and potential for specialization. This particular family member is expressed in the pituitary but not in placental tissue as is the case for the other four genes in the growth hormone locus. Mutations in or deletions of the gene lead to growth hormone deficiency and short stature.
Molecular Mass	~18.1KDa, reducing conditions
AA Sequence	MFLQNPQTSLCFSESIPTPSNREETQQKSNLELLRISLLLIQSWLEPVQFLRSVFANS LVYGASDSNVYDLLKDLEEGIQTLMGRLDGSPRTGQIFKQTYSKFDTNSHNDDALL KNYGLLYCFRKDMDKVETFLRIVQCRSVEGSCGFLEHHHHHH
Purity	>90%, by SDS-PAGE

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Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.12 mg/mL
Storage Buffer	Supplied as a 0.2 µm filtered solution in 20 mM Tris, 300 mM NaCl, pH 8.0
GENE INFORMATION	
Gene Name	GH1 growth hormone 1 [Homo sapiens (human)]
Official Symbol	GH1
Synonyms	GH1; growth hormone 1; GH; GHN; GH-N; GHB5; IGHD2; hGH-N; IGHD1A; IGHD1B; somatotropin; growth hormone B5; pituitary growth hormone
Gene ID	2688
mRNA Refseq	NM_000515
Protein Refseq	NP_000506
MIM	139250
UniProt ID	P01241