

Recombinant Human GH1 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. GH1-007H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GH1 MS Standard C13 and N15-labeled recombinant protein (NP_000506) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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	24.8 kDa
AA Sequence	MATGSRTSLLLAFGLLCLPWLQEGSAFPTIPLSRIFDNAMLRAHRLHQLAFDITYQEF EEAYIPKEQKYSFLQNPQTSLCFSESIPTPSNREETQQKSNLELLRISLLLIQSWLEPV

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QFLRSVFANSLVYGASDSNVYDLLKDLEEGIQTLMGRLEDGSPRTGQIFKQTYSKFD
TNSHNDDALLKNYGLLYCFRKDMDKVETFLRIVQCRSVEGSCGFTRTRPLEQKLISE
EDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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

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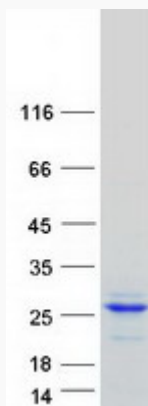
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UniProt ID

P01241

SDS-PAGE

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