

## Product datasheet for TP315644

### Growth Hormone (GH1) (NM\_000515) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human growth hormone 1 (GH1), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC215644 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	 MATGSRTSLLLAFLGLLCLPWLQEGSAFPTIPLSRFDNAMLRAHRLHQLAFDITYQEFEEAYIPKEQKYSF LQNPQTSLCFSESIPSPNREETQQKSNLELLRISLLLIQSWLEPVQFLRSVFANSLVYGASDSNVYDLL KDLEEGIQTLMGRLEDGSPRTGQIFKQTYSKFDTNSHNDDALLKNYGLLYCFRKDMDKVETFLRIVQCRS VEGSCGF  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	24.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u><a href="#">NP_000506</a></u>
Locus ID:	2688
UniProt ID:	<u><a href="#">P01241</a></u>



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RefSeq Size: 860

Cytogenetics: 17q23.3

RefSeq ORF: 651

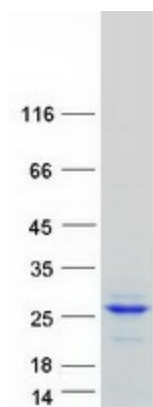
Synonyms: GH; GH-N; GHB5; GHN; hGH-N; IGHD1A; IGHD1B; IGHD2

**Summary:** 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. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, Neuroactive ligand-receptor interaction

### Product images:



Coomassie blue staining of purified GH1 protein (Cat# TP315644). The protein was produced from HEK293T cells transfected with GH1 cDNA clone (Cat# [RC215644]) using MegaTran 2.0 (Cat# [TT210002]).