

Product datasheet for **TP309608M**

Growth Hormone (GH1) (NM_022559) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human growth hormone 1 (GH1), transcript variant 2, 100 µg

Species: Human

Expression Host: HEK293T

**Expression cDNA Clone
or AA Sequence:** >RC209608 protein sequence
Red=Cloning site **Green**=Tags(s)

MATGSRTSLLLAFLGLLCLPWLQEGSAFPTIPLSRLFDNAMLRHRLHQLAFDITYQEFNPQTSLCFSESIP
TPSNREETQQKSNLELLRISLLLIQSWLEPVQFLRSVFANSLVYGASDSNVYDLLKDLEEGIQTLMGRLE
DGSPRTGQIFKQTYSKFDTNSHNDALLKNGLLYCFRKDMDKVETFLRIVQCRSVEGSCGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 22.8 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: [NP_072053](#)

Locus ID: 2688

UniProt ID: [P01241](#), [B1A4G7](#)

RefSeq Size: 815



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Cytogenetics: 17q23.3

RefSeq ORF: 606

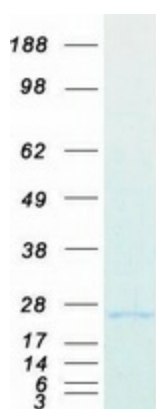
Synonyms: GH; GH-N; GHB5; GHN; hGH-N; IGHD1A; IGHD1B; IGHD2

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# [TP309608]). The protein was produced from HEK293T cells transfected with GH1 cDNA clone (Cat# [RC209608]) using MegaTran 2.0 (Cat# [TT210002]).