OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for PH315644

Growth Hormone (GH1) (NM_000515) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GH1 MS Standard C13 and N15-labeled recombinant protein (NP_000506)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC215644
Predicted MW:	24.8 kDa
Protein Sequence:	>RC215644 protein sequence Red=Cloning site Green=Tags(s) MATGSRTSLLLAFGLLCLPWLQEGSAFPTIPLSRLFDNAMLRAHRLHQLAFDTYQEFEEAYIPKEQKYSF LQNPQTSLCFSESIPTPSNREETQQKSNLELLRISLLLIQSWLEPVQFLRSVFANSLVYGASDSNVYDLL KDLEEGIQTLMGRLEDGSPRTGQIFKQTYSKFDTNSHNDDALLKNYGLLYCFRKDMDKVETFLRIVQCRS VEGSCGF TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000506
RefSeq Size:	860
RefSeq ORF:	651
Synonyms:	GH; GH-N; GHB5; GHN; hGH-N; IGHD1A; IGHD1B; IGHD2
Locus ID:	2688
UniProt ID:	P01241, B1A4G6

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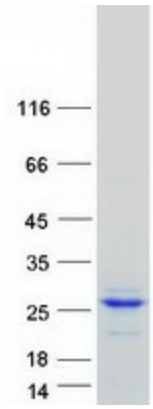
Cytogenetics: 17q23.3

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]).