

Recombinant Human GH1 Protein

Cat. No. GH1-043H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human GH1 protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	638
Description	<p>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.</p>
Form	Lyophilized
Molecular Mass	22.26 kDa
AA Sequence	MDLWQLLLLTLALAGSSDAFSGSEATAAILS RAPWSLQSVNPGLKTNSSKEPKFTKCR

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SPERETFSCHWTDDEVHHGTKNLGPIQLFYTRRNTQEWTQEWKECPDYVSAGENS
 YFNSSFTSIWIPYCIKLTSNGGTVDEKCFVDEIVQPDPIALNWTLNLSLTGIHADIQ
 VRWEAPRNADIQKGMVLEYELQYKEVNETKWKMMDPILTTSPVYSLKVDKEYEV
 RVRSKQRNSGNYGEFSEVLYVTLPQMSQFTCEEDFYFPWLLIIIFGIFGLTVMLFVFL
 FSKQQRIKMLILPPVPVKIKGIDPDLLKEGKLEEVNTILAIHDSYKPEFHSDDSWVEFI
 ELDIDEPDEKTEESDTRLLSSDHEKSHSNLGVKDGDSGRTSCCEPDILETDFNAND
 IHEGTSEVAQPQRLKGEADLLCLDQKNQNNSPYHDACPATQQPSVIAEKNKPQPL
 PTEGAESTHQAHHIQLSNPSSLSNIDFYAQVSDITPAGSVVLSPGQKNKAGMSQCD
 MHPEMVSLCQENFLMDNAYFCEADAKKCIPVAPHIKVESHIQPSLNQEDIYITTESLT
 TAAGRPGTGEHVPGSEMPVPDYTSIHIVQSPQGLILNATALPLPDKEFLSSCGYVST
 DQLNKIMP

Purity > 98%

Applications WB

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

Storage 4°C

Concentration 1 mg/mL

Storage Buffer Sodium-phosphate (pH 7.4). Sterile-filtered colorless solution (reconst).

Reconstitution Reconstitute in sterile distilled H₂O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

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GENE INFORMATION**Gene Name** GH1 growth hormone 1 [Homo sapiens (human)]**Official Symbol** GH1**Synonyms** GH1; growth hormone 1; somatotropin; GH; GH N; GHN; hGH N; pituitary growth hormone; GH-N; hGH-N; IGHD1B;**Gene ID** 2688**mRNA Refseq** NM_000515**Protein Refseq** NP_000506**MIM** 139250**UniProt ID** P01241 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA