Recombinant Human GH2 Protein, GST-tagged

Cat. No. GH2-4884H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GH2 full-length ORF (AAH20760.1, 27 a.a. - 217 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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. As in the case of its pituitary counterpart, growth hormone 1, the predominant isoform of this particular family member shows similar somatogenic activity, with reduced lactogenic activity. Mutations in this gene lead to placental growth hormone/lactogen deficiency. [provided by RefSeq
Molecular Mass	46.75 kDa
AA Sequence	FPTIPLSRLFDNAMLRARRLYQLAYDTYQEFEEAYILKEQKYSFLQNPQTSLCFSESI PTPSNRVKTQQKSNLELLRISLLLIQSWLEPVQLLRSVFANSLVYGASDSNVYRHLKD LEEGIQTLMWRLEDGSPRTGQIFNQSYSKFDTKSHNDDALLKNYGLLYCFRKDMDK

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	VETFLRIVQCRSVEGSCGF
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCI, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	GH2 growth hormone 2 [Homo sapiens]
Official Symbol	GH2
Synonyms	GH2; growth hormone 2; growth hormone variant; GH V; GHL; GHV; hGH V; placenta specific growth hormone; placental specific growth hormone; placenta-specific growth hormone; placental-specific growth hormone; GH-V; hGH-V;
Gene ID	2689
mRNA Refseq	NM_002059
Protein Refseq	NP_002050
MIM	139240

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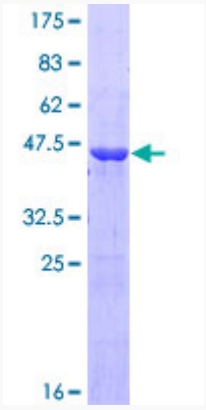
UniProt ID	P01242
Quality Control Testing	 12.5% SDS-PAGE Stained with Coomassie Blue.

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