

Recombinant Cattle GH1 Protein, His-tagged

Cat. No. GH1-948C Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Cattle GH1 Protein (Ala27-Phe217) with His tag was expressed in E. coli.
Species	Cattle
Source	E.coli
ProteinLength	Ala27-Phe217
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. 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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 25.4 kDa; Accurate Molecular Mass: 25 kDa

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in ddH2O to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	GH1 growth hormone 1 [Bos taurus (cattle)]
Official Symbol	GH1
Synonyms	GH1; growth hormone 1; somatotropin; GH
Gene ID	280804
mRNA Refseq	NM_180996
Protein Refseq	NP_851339

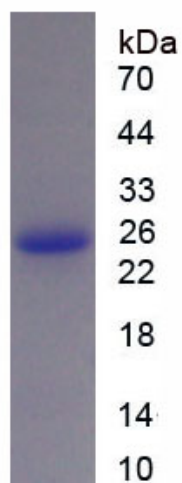
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