

Growth Hormone, Bovine Recombinant

CATALOG NO:	P1593- 20 20 µg P1593-100 100 µg
ALTERNATE NAMES:	BGH, BST, rBGH, rBST, Bovine Somatotropin, Bovine GH, Growth hormone, GH1.
MOL. WT.	21.8 kDa
SOURCE:	<i>E. coli</i>
PURITY:	98% SDS - PAGE
FORM:	Lyophilized
FORMULATION:	Lyophilized from a concentrated (1mg/ml) solution with 0.0045 mM NaHCO ₃ adjusted to pH 8-9.
RECONSTITUTION:	It is recommended to reconstitute the lyophilized Bovine Growth Hormone in sterile 18MΩ-cm H ₂ O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
SPECIFIC ACTIVITY:	The activity as determined by the PDFP13B9 cells stably transfected with rabbit GH receptors. Bovine GH is also capable of forming a 1:2 complex with the recombinant ovine growth hormone receptor extracellular domain (ECD).
STORAGE CONDITIONS:	Store at -20°C. Once reconstituted store at 4°C for short-term (2-7 days) and for future use below -20°C. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid freeze-thaw cycles.
DESCRIPTION:	GH 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.
AMINO ACID SEQUENCE:	aa 1-191
RELATED PRODUCTS:	<ul style="list-style-type: none">• GHRH, human recombinant (4784)• Growth Hormone, chicken recombinant (4771)• Growth Hormone, murine recombinant (4770)• Growth Hormone, human recombinant (4769)• Human CellExp™ HGH, Human Recombinant (6457)

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