Growth Hormone Bovine Recombinant

Item Number	rAP-2286
Synonyms	BGH, BST, rBGH, rBST, Bovine Somatotropin, Bovine GH, Growth hormone, GH1.
Description	Growth Hormone Bovine Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 191 amino acids and having a molecular mass of 21.8 kDa. The GH Bovine Recombinant is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P01246
Amino Acid Sequence	1 afpamslsgl fanavlraqh lhqlaadtfk efertyipeg qrysiqntqv 51 afcfsetmpa ptgkneaqqk sdlellrisl lliqswlgpl qflsrvftns 101 lvfgtsdrvy eklkdleegi lalmreledg tprrgqilkq tydkfdtnmr 151 sddallknyg llscfrkdlh ktetylrvmk crrfgeasca f
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Bovine Growth Hormone although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GH Bovine should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
Formulation and Purity	The Bovine Growth Hormone protein was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO3 adjusted to pH 8-9. Greater than 98.0% as determined by:(a) Analysis by SEC-HPLC.(b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Bovine Growth Hormone in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological 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).
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for Research Use Only