

RPPB0332

Product Information Protein Information

Product SKU:

RPPB0332

Host:

Escherichia Coli.

Protein description:

Placental Growth Hormone Ovine Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 191 amino acids and having a molecular mass of 21918 Dalton. The GH Ovine Recombinant is purified by proprietary chromatographic techniques. Placental Growth Hormone differs from pituitary Ovine Growth Hormone by two amino acids G9R/G63S. Placental Ovine Growth Hormone possesses higher biological activity as compared to pituitary Ovine GH.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

GH1, GH, GHN, GH-N, hGH-N, Pituitary growth hormone, Growth hormone 1, Somatotropin.

Formulation:

The protein was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO₃ adjusted to pH-9.

Purity:

Greater than 98.0% as determined by:(a) Analysis by SEC-HPLC.(b) Analysis by SDS-PAGE.

Solubility:

It is recommended to reconstitute the lyophilized Growth Hormone in sterile 0.4% NaHCO₃ pH-9 not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized Ovine Placental Growth Hormone although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GH Ovine Placental 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.

Amino Acid Sequence:

The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Thr-Phe-Pro-Ala.

Biological Activity:

Ovine placental Growth Hormone is fully biologically active when compared to World Health Organization (WHO) reference standard using in vitro bioassay in PDF-P1 3B9 cells stably transfected with rabbit GH receptors. It is also capable of forming a 1:2 complex with the recombinant ovine growth hormone receptor extracellular domain (ECD).