

Ovine Growth Hormone Antagonist Recombinant Protein



RPPB0346

Product Information Protein Information

Product SKU:

RPPB0346

Host:

Escherichia Coli.

Protein description:

Somatotropin Ovine Antagonist Recombinant G119R produced in E.Coli is a single, non-glycosylated polypeptide chain containing 191 amino acids and having a molecular mass of 22 kDa. The Somatotropin Ovine Antagonist Recombinant is purified by proprietary chromatographic techniques.

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 0.0045M NaHCO₃, pH 9.

Purity:

Greater than 98.0% as determined by: (a) Analysis by RP-HPLC (b) Analysis by Gel Filtration. (c) Analysis by SDS-PAGE.

Solubility:

It is recommended to reconstitute the lyophilized GH G119R in 0.4% NaHCO₃ or water adjusted to pH 9, not less than 100µg/ml, which can then be further diluted to other aqueous solutions, preferably in a presence of a carrier protein such as BSA or similar.

Stability:

Lyophilized GH G119R although stable at room temperature for at least two weeks, should be stored desiccated below -18°C. Upon reconstitution and filter sterilization GH can be stored at 4°C, pH 9 for up to 4 weeks. For long term storage and more diluted solutions 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:

GH G119R acts as antagonist using an in vitro bioassay in PDF-P1 3B9 cells stably transfected with rabbit GH receptors. It is capable of forming a 1:1 complex with the recombinant ovine growth hormone receptor extracellular domain (ECD) and binds to this ECD with affinity similar the the wild type oGH.