

Zebrafish Growth Hormone Recombinant Protein



RPPB0342

Product Information Protein Information

Product SKU:

RPPB0342

Host:

Escherichia Coli.

Protein description:

Somatotropin Zebrafish Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 185 amino acids with an additional Ala at the N-terminus and having a molecular mass of 21.18 kDa. The Zebrafish 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 0.5% NaHCO₃ pH-8.

Purity:

Greater than 99.0% as determined by: (a) Analysis by SEC-HPLC. (b) Analysis by SDS-PAGE.

Solubility:

It is recommended to reconstitute the lyophilized Zebrafish Growth-Hormone 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 Zebrafish Growth-Hormone 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:

AQRLFNNAVIRVQHLHLQAAKMINDFEGLMPEERRQLSKIFPL
SFCNSDSIETPTGKDETKSSMLKLLRISFRLIESWEFPSQTLSS
TISNSLTIGNPNLITEKLVLDKMGISVLIKGCLDGQPNMDDNDSL
PLPFEDFYLTVGESLRESFLLACFKKDMHKVETYLVRANCRRSLDSNCTL

Biological Activity:

Zebrafish Growth-Hormone is biologically active in PDF-P1 3B9 cells stably transfected with rabbit GH receptors.