

# Rainbow Trout Growth Hormone Recombinant Protein



RPPB0343

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## Product Information    Protein Information

**Product SKU:**

RPPB0343

**Accession:**

P09538

**Host:**

Escherichia Coli.

**Protein description:**

Somatotropin Rainbow Trout (*Oncorhynchus mykiss*) Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 188 amino acids with an additional Ala at the N-terminus and having a molecular mass of 21, 535 Dalton. The Rainbow Trout (*Oncorhynchus mykiss*) Growth-Hormone 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% NaHCO<sub>3</sub>. Adjusted to pH-8.

**Purity:**

Greater than 95.0% as determined by:(a) Analysis by SEC-HPLC.(b) Analysis by SDS-PAGE.

**Solubility:**

It is recommended to reconstitute the lyophilized Growth-Hormone Rainbow Trout (*Oncorhynchus mykiss*) in 0.4% NaHCO<sub>3</sub> or water adjusted to pH 8-9, not less than 100µg/ml and not more than 3mg/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 Growth-Hormone Rainbow Trout (*Oncorhynchus mykiss*) 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:**

AIENQRLFNIAVSRVQHLHLLAQKMFNDFDGTLLPDERRQLNKIFLLDFCNSDSIVSPVDKHETQKSSVLKLLHISFRL  
IESWEYPSQTLIISNLSLMVRNANQISEKLSDLKVGINLLITGSQDGVLSLDDNDSQQLPPYGNYYQNLGGDGNVRR  
NYELLACFKKDMHKVETYLTVAKCRKSLEANCTL.

**Biological Activity:**

Somatotropin Rainbow Trout (*Oncorhynchus mykiss*) Recombinant is biologically active in PDF-P1 3B9 cells stable transfected with rabbit GH receptors, though its activity is about 10 fold lower than that of human GH.