

Growth Hormone Rainbow Trout (*Oncorhynchus mykiss*) Recombinant

Item Number	rAP-2265
Synonyms	GH1, GH, GHN, GH-N, hGH-N, Pituitary growth hormone, Growth hormone 1, Somatotropin.
Description	Somatotropin Rainbow Trout (<i>Oncorhynchus mykiss</i>) 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 (<i>Oncorhynchus mykiss</i>) Growth-Hormone
Uniprot Accesion Number	P09538
Amino Acid Sequence	AIENQRLFNIAVSRVQHLHLLAQKMFNDFDGTL- PDERRQLNKIFLLDFCNSDSIVSPVDKHETQKSSVLKLLHISFRLIESWEYPSQTLIISNSLMVRNANQISEKL SDLKVGINLLITGSQDGVLSLDDNDSQQLPPYGNYYQNLGGDGNVRRNYELLACFKKDMHKVETYLTVAK CRKSLEANCTL.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Growth-Hormone Rainbow Trout (<i>Oncorhynchus mykiss</i>) 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
Formulation and Purity	The protein was lyophilized from a concentrated (1mg/ml) solution with 0.5% NaHCO ₃ . Adjusted to pH-8. Greater than 95.0% as determined by:(a) Analysis by SEC-HPLC.(b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Growth-Hormone Rainbow Trout (<i>Oncorhynchus mykiss</i>) in 0.4% NaHCO ₃ 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 solu
Biological Activity	Somatotropin Rainbow Trout (<i>Oncorhynchus mykiss</i>) 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.
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**