
Product Data Sheet

Product Name: GH Zebrafish Mutant
Cat. No.: GP20345
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	GH1; GH; GHN; GH-N; hGH-N; Pituitary growth hormone; Growth hormone 1; Somatotropin.		
Amino Acid Sequence	The sequence of the first six N-terminal amino acids was determined and was found to be Ala-Gln-Arg-Leu-Phe-Asn.		
Solubility	It is recommended to reconstitute the lyophilized Zebrafish Mutant G113R in 0.4% NaHCO ₃ 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.		
Formulation	The protein was lyophilized from a concentrated (1mg/ml) solution with 0.5% NaHCO ₃ pH-8.		

Introduction

GH is a member of the somatotropin/prolactin family of hormones which play an important role in growth control. The gene, along with four other related genes, is located at the growth hormone locus on chromosome 17 where they are interspersed in the same transcriptional orientation; an arrangement which is thought to have evolved by a series of gene duplications. The five genes share a remarkably high degree of sequence identity. Alternative splicing generates additional isoforms of each of the five growth hormones, leading to further diversity and potential for specialization. This particular family member is expressed in the pituitary but not in placental tissue as is the case for the other four genes in the growth hormone locus. Mutations in or deletions of the gene lead to growth hormone deficiency and short stature.

Stability

Lyophilized Growth-Hormone although stable at room temperature for at least two

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Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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.

Background

Somatotropin Zebrafish Mutant G113R 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 Mutant G113R Recombinant is purified by proprietary chromatographic techniques.

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