

Carp Growth Hormone Active Protein | cGH active protein

Recombinant Carp Growth Hormone

CATALOG #
AAA38148

HOST
E Coli

PRODUCT SYNONYMS

Carp Growth Hormone; Recombinant Carp Growth Hormone; GH Carp; Growth Hormone Carp Recombinant; GH1; GH; GHN; GH-N; hGH-N; Pituitary growth hormone; Growth hormone 1; Somatotropin; cGH active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by: (a) Analysis by SEC-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	The GH Carp was lyophilized from a concentrated (1mg/ml) solution with 0.3% NaHCO ₃ adjusted to pH 8. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	Thesequenc eofthefirs tfiveN-ter minalamino acidswasde terminedan dfoundtobe Ser-Asp-As n-Gln-Arg
Sequence Length	210
Solubility	It is recommended to reconstitute the lyophilized Growth Hormone Carp recombinant in sterile 18M Omega -cm H ₂ O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	Carp GH is biologically active in rat 3T3 F442A preadipocytes, though its activity is 15-fold lower compared to bovine GH, but it is equally potent in vivo in promoting carp growth (Fine et al.1993). Furthermore, carp GH forms 1:2 complex with the extra cellular domain of ovine growth hormone receptor.
Preparation and Storage	Lyophilized Growth Hormone Carp recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution Growth Hormone Carp should be stored at 4 degree C between 2-7 days and for future use below -18 degree C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for cGH active protein	Description: Growth Hormone Carp Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 188 amino acids & having a molecular mass of 21,408 Dalton. Growth Hormone Carp is purified by proprietary chromatographic techniques. Introduction: Growth-Hormone 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.
Product Categories/Family for cGH active protein	Cytokines and Growth Factors; Growth Factors; Growth Hormone

NCBI AND UNIPROT INFORMATION

NCBI GI #	134701
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UniProt Accession #	P10298
Molecular Weight	23,765 Da
NCBI Official Full Name	Somatotropin
UniProt Protein Name	Somatotropin
UniProt Gene Name	gh
UniProt Entry Name	SOMA_CYPCA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/e-coli-cgh-active-protein/carp-growth-hormone/38148>