Carp Growth Hormone

Synonyms: GH1, GH, GHN, GH-N, hGH-N,Pituitary growth hormone, Growth hormone 1, Somatotropin.

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
10 µg	1445.900.010		
50 µg	1445.900.050		
1 mg	1445.900.199		

Please enquire for bulk quantities and other vial sizes

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.

- **Source** *E. Coli*
- **Purity** ≥ 95 % (SDS-PAGE, SEC-HPLC)
- **Endotoxin level** ≤ 0.1ng/µg (≤ 1EU/µg)
- **Buffer** The GH Carp was lyophilized from a concentrated (1mg/ml) solution with 0.3% $NaHCO_3$ adjusted to pH 8*
- **Physical state** Sterile filtered, lyophilized

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.

Reconstitution

We recommend a quick spin followed by reconstitution in sterile water to a concentration of at least 100 µg/ml, which can then be further diluted to other aqueous solutions. Do not vortex.

Stability

Lyophilized Growth Hormone Carp recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Growth Hormone Carp should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please avoid repeated freeze-thaw cycles**.

Amino Acid Sequence

The sequence of the first five N-terminal amino acids was determined and found to be Ser-Asp-Asn-Gln-Arg.

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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