



Growth Hormone, rat recombinant (rrGH)

Catalog No: 87396
Lot No: XXXXX
Source: *E. coli*
Synonyms: GH1, GH, GHN, GH-N, hGH-N, Pituitary growth hormone, Growth hormone 1, Somatotropin

Background

GH is a member of the somatotropin/prolactin family of hormones which play an important role in growth control. Its major role in stimulating body growth is to stimulate the liver and other tissues to secrete IGF-1. It stimulates both the differentiation and proliferation of myoblasts. It also stimulates amino acid uptake and protein synthesis in muscle and other tissues.

Description

Growth Hormone rat recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 190 amino acids and having a molecular mass of 21810 Dalton. GH is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

The protein (1 mg/ml) was lyophilized after extensive dialyses against 5 mM phosphate buffer, 5 mg mannitol and 1 mg glycine.

Solubility

It is recommended to reconstitute the lyophilized GH in sterile 18 M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Growth Hormone, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GH Rat 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 prevent freeze-thaw cycles.

Purity

Greater than 97.0% as determined by (a) Analysis by SEC-HPLC, (b) Analysis by SDS-PAGE.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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