

Human Growth Hormone Recombinant Protein



RPPB0328

Product Information Protein Information

Product SKU:

RPPB0328

Accession:

P01241

Host:

Nicotiana
benthamiana plant

Protein description:

GH human Recombinant produced in Nicotiana benthamiana plant is a single chain containing 205 amino acids (molecular formula C1025H1570N280O306S7) and 6-His-tag at the N-terminal having the total molecular mass of 22.9kDa.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

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

Formulation:

Lyophilized from 1mg/ml solution in PBS 0.05M buffer at pH 7.5.

Purity:

Greater than 97.0% as determined by Analysis by SDS-PAGE.

Solubility:

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

Stability:

Lyophilized GH although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GH 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.

Amino Acid Sequence:

HHHHHHFPTI PLSRPFNAM LRAHRLHQLA FDTYQEFEEA YIPKEQKYSF LQNPQTSLCF SESIPTPSNR
EETQQKSNLE LLRISLLLIQ SWLEPVQFLR SVFANSLVYG ASDSNVYDLL KDLEEGIQLT MGRLEDGSPR
TGQIFKQTYS KFDTNSHNDD ALLKNYGLLY CFRKDMDKVE TFLRIVQCRS VEGSCGFAG

Biological Activity:

The biological activity of human Growth Hormone is measured by cell proliferation using Nb2-11 cells. ED₅₀ < 0.04-0.1 ng/mL.