

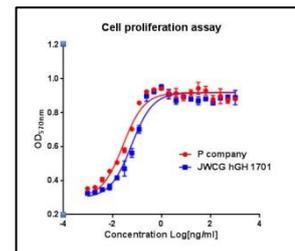
DATA SHEET

Product Information

Product Name	: Recombinant human Growth Hormone (rhGH)
Synonyms	: GH, GH-N, Somatotropin, Growth Hormone 1
Description	: Growth hormone (GH), also known as somatotropin, is a peptide hormone that stimulates growth, cell reproduction, and cell regeneration in humans and other animals. It is thus important in human development. It is a type of mitogen which is specific only to certain kinds of cells. Growth hormone is a 191-amino acid, single-chain polypeptide that is synthesized, stored, and secreted by somatotropic cells within the lateral wings of the anterior pituitary gland. GH is a stress hormone that raises the concentration of glucose and free fatty acids. It also stimulates production of IGF-1. (Ref. From Wikipedia)
NCBI Accession No.	: NM_000515.4
Amino acid sequence	: MFPTIPLSRLEFDNAMLRAHRLHQAFDITYQEFEEAYIPKEQKYSFLQNPQTS LCFSESIPTPSNREETQOKSNLELLRISLLLIQSWLEPVQFLRSVFNANSLVYG ASDSNVYDLLKDLLEGIQTLMGRLEDGSPRTGQIFKQTYSKFDTNSHNDALL KNYGLLYCFRKDMDKVETFLRIVQCRSVEGSCGF*
Molecular Mass	: 22.3 kDa (192 aa)
Protein Tags	: No tagging
Source	: <i>E. coli</i> .
Cat. No.	: JW-H022-0010, JW-H022-0025, JW-H022-0100, JW-H022-0250, JW-H022-0500, JW-H022-1000
Storage	: Should be at ≤ -70 °C as undiluted aliquots of handy size. Avoid repeated freezing and thawing.
Cross Reactivity	: Rat

Quality Control

Test items	Specifications
Appearance	: Clear, colorless liquid
Purity	: Greater than 95 % by SDS-PAGE
Specificity	: Using Western blot, detection
Concentration	: 0.1 mg/ml, Bradford method Determined by proliferation of Nb2-11 indicator cells.
Biological Activity	: The ED50 is ≤ 0.05 ng/ml, corresponding to a specific activity of $> 2.0 \times 10^7$ U/mg
Endotoxin	: Less than 0.1 EU/ μ g as determined by the LAL method
Formulation	: 10mM Tris, 1% sucrose (pH 8.5) without preservative or carrier proteins.
Stability	: Stable for up to 12 months at -70 °C. Stable for a month at 4 °C.
Sterility	: Sterilized through a 0.2 μ m membrane filter and packaged aseptically. Culture for 2 weeks, no growth



Manufacturer : **JW CreaGene Inc.**
 FL2, Jungang induspia V, 138-6, Sangdaewon-dong, Jungwon-gu, Seongnam-si,
 Gyeonggi-do, South Korea (462-120)
 Tel: 82-31-737-3310, Fax: 82-31-737-3301