

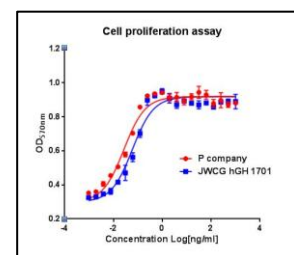
## DATA SHEET

### Product Information

<b>Product Name</b>	: <b>Recombinant human Growth Hormone (rhGH)</b>
<b>Synonyms</b>	: GH, GH-N, Somatotropin, Growth Hormone 1
<b>Description</b>	: 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 somatotrophic 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)
<b>NCBI Accession No.</b>	NM_000515.4
<b>Amino acid sequence</b>	: MFPTIPLSRLFDNAMLRAHRLHQLAFDTYQEFEEAYIPKEQKYSFLQNPQTS LCFSESIPTPSNREETQOKSNLELLRISLLLIQSWLEPVQFLRSVFNLSLVYG ASDSNVYDLLKDLEEGIQTLMGRLEDGSPRTGQIFKQTYSKFDTNSHNDDALL KNYGLLYCFRKMDKVVETFLRIVQCRSVEGSCGF*
<b>Molecular Mass</b>	: 22.3 kDa (192 aa)
<b>Protein Tags</b>	: No tagging
<b>Source</b>	: <i>E. coli</i> .
<b>Cat. No.</b>	: JW-H022-0010, JW-H022-0025, JW-H022-0100, JW-H022-0250, JW-H022-0500, JW-H022-1000
<b>Storage</b>	: Should be at $\leq -70$ °C as undiluted aliquots of handy size. Avoid repeated freezing and thawing.
<b>Cross Reactivity</b>	: Rat

### Quality Control

Test items	Specifications
<b>Appearance</b>	: Clear, colorless liquid
<b>Purity</b>	: Greater than 98 % by RP-HPLC and SDS-PAGE
<b>Specificity</b>	: Using Western blot, detection
<b>Concentration</b>	: 0.1 mg/ml, Bradford method Determined by proliferation of Nb2-11 indicator cells.
<b>Biological Activity</b>	: The ED50 is $\leq 0.05$ ng/ml, corresponding to a specific activity of $> 2.0 \times 10^7$ EU/mg
<b>Endotoxin</b>	: Less than 1.0 EU/ $\mu$ g as determined by the LAL method
<b>Formulation</b>	: 10mM Tris, 1% sucrose (pH 8.5) without preservative or carrier proteins.
<b>Stability</b>	: Stable for up to 12 months at $-70$ °C. Stable for a month at 4 °C.
<b>Sterility</b>	: Sterilized through a 0.2 $\mu$ 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