



SHANGHAI GENOMICS

Recombinant Human Growth Hormone

rHuGH

Catalog number: SG3110-07

Specifications and Use

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|----------------------------|---|
| Source | ● Yeast. |
| Molecular Mass | ● Approximately 22.1kDa. |
| Purity | ● $\geq 97\%$, as determined by HPLC method. |
| Biological Activity | ● $\geq 2.8\text{IU/mg}$ |
| Endotoxin Level | ● Less than 5EU/mg of rHuGH as determined by LAL method. |
| Formulation | ● Active ingredient: Recombinant Human Growth Hormone.
Inactive ingredient: Mannitol, Dibasic Sodium Phosphate, Monobasic Sodium Phosphate and Glycin. |
| Solubility | ● It is recommended to reconstitute the lyophilized rHuGH in sterile ddH ₂ O containing at least 0.1% human serum albumin or bovine serum albumin to prepare a stock solution of no less than 100 $\mu\text{g/ml}$. |
| Stability | ● Lyophilized samples are stable for two years from date of manufacture at 2 $^{\circ}\text{C}$ to 8 $^{\circ}\text{C}$. |
| Usage | ● FOR RESEARCH USE ONLY. NOT FOR HUMAN USE. |

Human Growth Hormone

Human growth hormone is a kind of protein hormone produced by human pituitary anterior lobe. Its precursor is composed of 217 amino acid residue, including the signal peptide formed by the first 26 amino acid residue, and the other 191 amino acid residue to develops into mature protein. The protein has a molecular mass of approximately 22KD, containing two pairs of disulfide bonds at the positions of Cys79-Cys191 and Cys208-Cys215. It plays an important role in promoting the growth of cell, organs and skeletal, and it also has closely relative with organ anabolism.