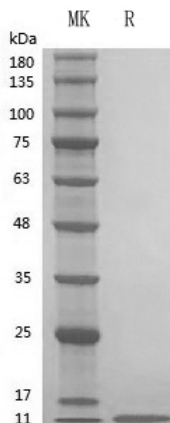


## Summary

<b>Name</b>	Insulin
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE
<b>Endotoxin level</b>	≤10 EU/mg
<b>Construction</b>	Recombinant Human Insulin is produced by our Yeast expression system and the target gene encoding $\alpha$ chain: G-I-V-E-Q-C-C-T-S-I-C-S-L-Y-Q-L-E-N-Y-C-N & beta chain: F-V-N-Q-H-L-C-G-S-H-L-V-E-A-L-Y-L-V-C-G-E-R-G-F-F-Y-T-P-K-T is expressed.
<b>Accession #</b>	P01308
<b>Tag</b>	Tag free
<b>Host</b>	Yeast
<b>Species</b>	Human
<b>Predicted MW</b>	6 kDa
<b>Form</b>	Lyophilized
<b>Buffer</b>	Acetic acid
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
<b>Stability&amp;Storage</b>	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
<b>Reconstitution</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## SDS-PAGE image

**Product Name: GMP Recombinant Human Insulin**  
**Catalog#: PPH90032**



## Background

### Alternative Names

Insulin; INS; IDDM; ILPR; IRDN; MODY10

### References

Insulin is a peptide hormone with 51 amino acids that plays a crucial role in regulating glucose homeostasis, cell growth, and metabolism . It is produced by the beta cells of the islets of Langerhans in the pancreas and is secreted in response to elevated blood glucose levels, such as after a meal . Insulin is synthesized as a prohormone called preproinsulin, which consists of 110 amino acids. This is processed to proinsulin, which includes the A-chain, B-chain, and C-peptide, and is then further processed to the active form of insulin with the removal of the C-peptide.

## Note

For research use only .