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Recombinant Human Insulin Protein

Catalog No.: RP03297 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	3630	P01308

Tags

Synonyms
INS; Insulin; Cleaved into: Insulin B chain; Insulin A chain

Product Information

Source	Purification
Yeast	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
5.8 kDa	5-10 kDa

Endotoxin
≤20 EU/mg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution .

Reconstitution
It is recommended to redissolve in sterile 0.01 M HCl at a concentration of not less than 1mg/mL.

Contact

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Background

INS (Insulin) is a Protein Coding gene. This gene encodes insulin, a peptide hormone that plays a vital role in the regulation of carbohydrate and lipid metabolism. After removal of the precursor signal peptide, proinsulin is post-translationally cleaved into three peptides: the B chain and A chain peptides, which are covalently linked via two disulfide bonds to form insulin, and C-peptide. The binding of insulin to the insulin receptor (INSR) stimulates glucose uptake. Diseases associated with INS include Hyperproinsulinemia and Maturity-Onset Diabetes Of The Young, Type 10. A multitude of mutant alleles with phenotypic effects has been identified, including insulin-dependent diabetes mellitus, permanent neonatal diabetes mellitus, maturity-onset diabetes of the young type 10, and hyperproinsulinemia.

Basic Information

Description
Recombinant Human Insulin Protein is produced by Yeast expression system. The target protein is expressed with sequence of Human Insulin (Accession #RP03297) .

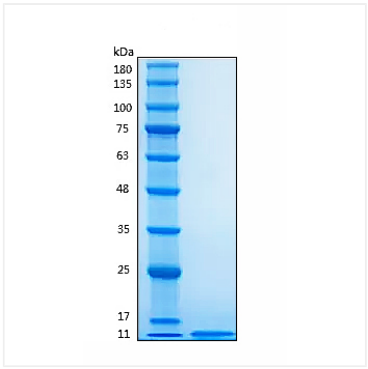
Bio-Activity

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Human Insulin Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.