

# Recombinant Human INS Protein

**For Research Use Only**

## 1. Basic Product Information

Catalog No.: REP50562

Size: 10ug, 100ug

Protein Name: Insulin [Cleaved into: Insulin B chain; Insulin A chain]

Synonym: INS

UniProt ID: P01308

UniProt Link: [www.uniprot.org/uniprotkb/P01308/entry](http://www.uniprot.org/uniprotkb/P01308/entry)

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 110 AA

Molecular Weight: 12 KD

Protein Tag: C-terminal His6

## 2. Amino Acid Sequence

MALWMRLPLLLALLALWGPDPAAAFVNQHLCGSHLVEALYLVCGERGFFYTPKTRREAEDLQVGQV  
ELGGPGAGSLQPLALEGSLQKRGIVEQCCTSICSLYQLENYCN

## 3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

## 4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

## 5. Product Description

This product is recombinant Insulin [Cleaved into: Insulin B chain; Insulin A chain] produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

**Protein Function:** Insulin decreases blood glucose concentration. It increases cell permeability to monosaccharides, amino acids and fatty acids. It accelerates glycolysis, the pentose phosphate cycle, and glycogen synthesis in liver.

**Subcellular Localization:** Secreted .

## 6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.