

# Recombinant Human INS protein (hFc Tag)

Catalog Number: Eg0332

## Basic Information

**Species:**  
Human**Purity:**  
>90 %, SDS-PAGE**Tag:**  
hFc Tag

## Technical Specifications

**Purity:**

&gt;90 %, SDS-PAGE

**Endotoxin Level:**

&lt;0.1 EU/ µg protein, LAL method

**Source:**

HEK293-derived Human INS protein Phe25-Thr54(Insulin B chain) +linker+Gly90-Asn110(Insulin A chain) (Accession# P01308-1) with a human IgG1 Fc tag at the C-terminus.

**GeneID:**

3630

**Accession:**

P01308-1

**Predicted Molecular Mass:**

32.1 kDa

**SDS-PAGE:**

32-36 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

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

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Insulin is a peptide hormone, produced by beta cells of the pancreas, and is central to regulating carbohydrate and fat metabolism in the body. It participates in glucose utilization, protein synthesis and in the formation and storage of neutral lipids. Insulin is synthesized as a precursor molecule, proinsulin, which is processed prior to secretion. A- and B-peptides are joined together by a disulfide bond to form insulin, while the central portion of the precursor molecule is cleaved and released as the C-peptide. Defects in insulin results in type 1 diabetes mellitus.

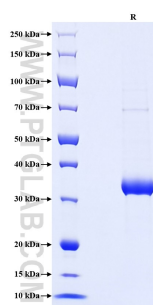
## References

1. Straub SG, et al. (2002). Diabetes Metab Res Rev. 18: 451-63.
2. Heath WF, et al. (1992). J Biol Chem. 267: 419-25.
3. Concannon, P. et al. (1998). Nat. Genet. 19: 292-296.

## Synonyms

INS, insulin

## Selected Validation Data



Purity of Recombinant Human INS was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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