

## Human Insulin Protein, E. coli

Catalog Number	LDG187PHE
Package	1 g / Customized package

For full product information, images and publications, please visit [our website](#).



### Specifications

#### Species of Origin

Human

#### Affinity Tag

Tag free

#### Purity

>95% as determined by SDS-PAGE analysis.

#### Endotoxin level

<0.1 EU per 1 µg of the protein by the LAL method.

#### Expression system

Escherichia coli

#### Buffer

Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.

#### Molecular weight

The protein has a calculated MW of 5.81 kDa.  
The protein migrates as 5 kDa under reducing condition (SDS-PAGE analysis).

#### Form

Lyophilized

### Background

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Insulin is a peptide hormone consisting of a double-chain structure ( $\alpha$ ,  $\beta$ ) secreted by pancreatic  $\beta$  cells. It is the only known endogenous protein hormone capable of lowering blood sugar levels. Insulin not only regulates the intake, utilization, and storage of glucose, amino acids, and fatty acids in cells but also promotes the synthesis of glycogen, fats, and proteins.

#### Synonyms

INS, IRDN, IDDM2, Preproinsulin, ILPR, Insulin, MODY10, Proinsulin

**Uniprot ID**

P01308

**Instruction**
**Reconstitution**

It is recommended to reconstitute the lyophilized protein in sterile 10 mM HCl to a concentration not more than 1-2 mg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

**Stability & Storage**

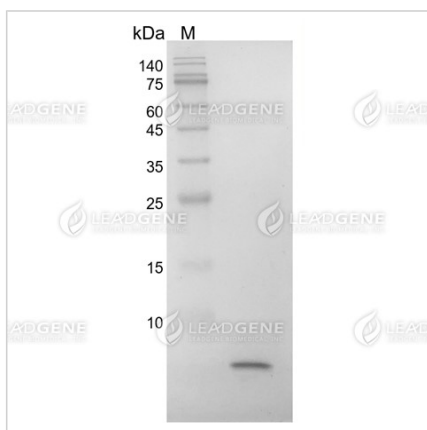
This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

**Shipping**

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

**Image**


SDS-PAGE analysis of recombinant human insulin protein

**Disclaimer** : For Research Use or Further Manufacturing Only.

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