

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

Storage 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

Tainan Headquarter

+886-6-2536677

bd@leadgene.com.tw

Innovation & Research Center

+886-2-27065528

CLD Center

+886-6-2536677

Background

Insulin is a peptide hormone consisting of a double-chain structure (α , β) secreted by pancreatic β 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.

Uniprot ID

P01308

Synonyms

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

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

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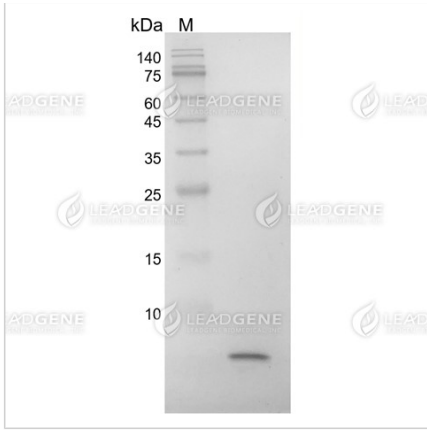
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SDS-PAGE analysis of
recombinant human insulin
protein

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