# **Recombinant Human Insulin Protein**

Catalog Number:PKSH032458



Note: Centrifuge before opening to ensure complete recovery of vial contents.

# **Description**

Synonyms IDDM;IDDM1;IDDM2;ILPR;INS;IRDN;MODY10

Species Human
Expression Host Yeast

Sequence Phe1-Lys29&Gly1-Asn21

AccessionP01308Calculated Molecular Weight6.0 kDaObserved molecular weight6 kDaTagNone

**Bioactivity** Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer

cells. The ED50 for this effect is typically 0.2-1 µg/mL.

### **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin** Please contact us for more information.

**Storage** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** Lyophilized from sterile PBS, pH 7.4.

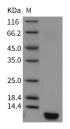
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

#### Data



> 95 % as determined by reducing SDS-PAGE.

### **Background**

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. Binding of insulin to the insulin receptor (INSR) stimulates glucose uptake.

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