



Recombinant Protein Technical Manual

Recombinant Human Insulin Protein (Active)

RPES1561

Product Data:

Product SKU: RPES1561

Size: 50µg

Species: Human

Expression host: Yeast

Uniprot: 2LGB_B

Protein Information:

Molecular Mass: 6 kDa

AP Molecular Mass: 6 kDa

Tag:

Bio-activity: Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells. The ED50 for this effect is typically 0.2 µg/mL.

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

Endotoxin: Please contact us for more information.

Storage: 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.

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

Application: Cell Culture

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

Immunogen Information:

Sequence: Phe1-Lys29&Gly1-Asn21

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.