

Recombinant Human Proinsulin protein

Cat. No. INS-315H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Proinsulin(Phe25 -Asn110) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	25-110 aa
Description	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. A multitude of mutant alleles with phenotypic effects have been identified. There is a read-through gene, INS-IGF2, which overlaps with this gene at the 5' region and with the IGF2 gene at the 3' region. Alternative splicing results in multiple transcript variants.
Molecular Mass	9394.67 Da
AA Sequence	FVNQHLCGSHLVEALYLVCGERGFFYTPKTRREAEDLQVGQVELGGGPGAGSLQPLALEGSLQKRGIVEQCCTS ICSLYQLENYCN
Purity	>99%
Storage	Lyophilized peptide is shipped at ambient temperature.12 months from date of receipt, -20°C to -70 °C as supplied.3 months, -20°C to -70 °C under sterile conditions

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

after reconstitution.1 month, 2 to 8 °C under sterile conditions after reconstitution.Avoid multiple freeze-thaw cycles.

Reconstitution Reconstitute to 1.0mg/mL in sterile phosphate buffered saline.

GENE INFORMATION

Gene Name [INS insulin \[Homo sapiens \]](#)

Official Symbol [INS](#)

Synonyms INS; insulin; proinsulin; ILPR; IRDN; IDDM2; MODY10;

Gene ID [3630](#)

mRNA Refseq [NM_000207](#)

Protein Refseq [NP_000198](#)

MIM [176730](#)

UniProt ID [P01308](#)

Chromosome Location 11p15.5

Pathway ATF-2 transcription factor network, organism-specific biosystem; Adipogenesis, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, conserved biosystem; Amyloids, organism-specific biosystem; Arf6 trafficking events, organism-specific biosystem; Developmental Biology, organism-specific biosystem;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Function

hormone activity; hormone activity; hormone activity; insulin receptor binding; insulin receptor binding; insulin-like growth factor receptor binding; protein binding;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA