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	FVNQHLCGSHLVEALYLVCGERGFFYTPKTRREAEDLQVGQVELGGGPGAGSLQP LALEGSLQKRGIVEQCCTS 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

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	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;

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

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