

Recombinant Human INS Protein, His-tagged

Cat. No. INS-18H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human INS Protein, fused to His-tag, was expressed in E. coli.
Species	Human
Source	E.coli
Description	<p>This gene encodes insulin, a peptide hormone that plays a vital role in the regulation of carbohydrate and lipid metabolism. 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, including insulin-dependent diabetes mellitus, permanent neonatal diabetes diabetes mellitus, maturity-onset diabetes of the young type 10 and hyperproinsulinemia. 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.</p>
Form	PBS, pH 7.4.
Molecular Mass	10.9 kDa
AA Sequence	MNHKVVHHHHH HMFVNQHLCG SHLVEALYLV CGERGFSTYTP KTRREAEDLE VGEVELGGGP GAGSLQPLAL EGSLQKRGIV EQCCTSICSL YQLENYCN
Purity	>90% by SDS-PAGE

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Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 0.4 mg/ml

GENE INFORMATION

Gene Name INS insulin [Homo sapiens (human)]

Official Symbol INS

Synonyms IDDM; ILPR; IRDN; IDDM1; IDDM2; PNDM4; MODY10

Gene ID 3630

mRNA Refseq NM_000207.3

Protein Refseq NP_000198.1

MIM 176730

UniProt ID P01308

SDS-PAGE M: Protein ladder; Lane 1: 0.5mg/ml BSA; Lane 2: purified protein

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