

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	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 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.
Form	PBS, pH 7.4.
Molecular Mass	10.9 kDa
AA Sequence	MNHKVVHHHHH HMFVNQHLCG SHLVEALYLV CGERGFSYTP 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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