

Recombinant Human INS Protein (Phe25-Thr54, Gly90-Thr110), N-His tagged

Cat. No. INS-2368H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant human INS (Phe25-Thr54, Gly90-Thr110) protein fused with the N-His tag was expressed in E. coli.

Species

Human

Source

E.coli

ProteinLength

Phe25-Thr54, Gly90-Thr110

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.

Molecular Mass

11.8 kDa

Purity

>90 % as determined by SDS-PAGE.

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Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS or lyophilized from PBS.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	INS insulin [Homo sapiens (human)]
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

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