Recombinant Human INS therapeutic protein(Insulin aspart)

Cat. No. Insulin-P060H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Insulin therapeutic protein is a recombinant, biosynthetic, fast-acting insulin analogue. It has a single amino acid substitution at position B28 where proline is replaced with aspartic acid. This substitution decreases its propensity to form hexamers and gives it a higher rate of absorption following subcutaneous administration compared to native insulin. Insulin aspart is produced in a genetically modified strain of?Saccharomyces cerevisiae?and harvested from a bioreactor.
Species	Human
Source	S.Cerevisiae
Description	Insulin aspart is a recombinant, biosynthetic, fast-acting insulin analogue. It has a single amino acid substitution at position B28 where proline is replaced with aspartic acid. This substitution decreases its propensity to form hexamers and gives it a higher rate of absorption following subcutaneous administration compared to native insulin. Insulin aspart is produced in a genetically modified strain of Saccharomyces cerevisiae and harvested from a bioreactor.
AA Sequence	>A chainGIVEQCCTSICSLYQLENYCN>B chainFVNQHLCGSHLVEALYLVCGERGFFYTDKT
Endotoxin	< 1.0 EU per μg of the protein
Purity	>95%

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Storage	Can be stored at +4 centigrade short term (1-2weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoidrepeated freezing and thawing cycles.
Alias	INS; ILPR; IRDN; IDDM2; Insulin aspart

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
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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