

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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