

Recombinant Human Islet Amyloid Polypeptide

Cat. No. IAPP-185H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Islet Amyloid Polypeptide produced in <i>E.coli</i> , is a non-glycosylated, Polypeptide chain containing 37 amino acids and having a molecular mass of 3903.4 Dalton.
Species	Human
Source	E.coli
Description	Amylin, or Islet Amyloid Polypeptide (IAPP), is a 37-residue peptide hormone secreted by pancreatic-cells at the same time as insulin (in a roughly 100:1 ratio). Amylin functions as part of the endocrine pancreas and contributes to glycemic control. Although amylin's complete function may not yet be known, it has been shown to slow gastric emptying, promote satiety, inhibit secretion of glucagon during hyperglycemia, and therein reduce the total insulin demand. As insulin lowers blood glucose and glucagon raises blood glucose, amylin supports the stability of blood glucose levels in effect by slowing the rate that digested glucose enters the bloodstream. Rodent amylin knockouts are known to fail to achieve the normal anorexia following food consumption.
Solubility	Resuspend in 1 % Acetic acid.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

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Formulation The Amylin peptide was lyophilized in 1% Acetic acid.

Stability Upon arrival store at -20°C.

GENE INFORMATION

Gene Name IAPP islet amyloid polypeptide [Homo sapiens]

Synonyms IAPP; islet amyloid polypeptide; DAP; IAP

Gene ID 3375

mRNA Refseq NM_000415

Protein Refseq NP_000406

MIM 147940

UniProt ID P10997

Chromosome Location 12p12.3-p12.1

Pathway Regulation of beta-cell development; Signaling by GPCR

Function hormone activity; receptor binding

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