

# Recombinant Human Islet Amyloid Polypeptide

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

## SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Solubility</b>	Resuspend in 1 % Acetic acid.
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Purity</b>	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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