# IAPP Protein, Human (GST)

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| **Cat. No.:** | HY-P72240 |
| **Synonyms:** | Amylin; DAP; Diabetes associated peptide; Diabetes-associated peptide; IAP; IAPP; IAPP_HUMAN; Insulinoma amyloid peptide; Islet amyloid polypeptide diabetes associated peptide, amylin; ; Islet amyloid polypeptide |
| **Species:** | Human |
| **Source:** | E. coli |
| **Accession:** | P10997 (K34-Y70) |
| **Gene ID:** | 3375 |
| **Molecular Weight:** | Approximately 31.4 kDa |

## PROPERTIES

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| **AA Sequence** | K C N T A T C A T Q  R L A N F L V H S S  N N F G A I L S S T  N V G S N T Y |
| **Appearance** | Lyophilized powder. |
| **Formulation** | Lyophilized from a 0.2 μm solution of PBS, 6% Trehalose, pH 7.4. |
| **Endotoxin Level** | <1 EU/μg, determined by LAL method. |
| **Reconsititution** | It is not recommended to reconstitute to a concentration less than 100 μg/mL in $ddH_2O$. |
| **Storage & Stability** | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| **Shipping** | Room temperature in continental US;may vary elsewhere. |

## DESCRIPTION

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| **Background** | IAPP protein demonstrates selective inhibition of insulin-stimulated glucose utilization and glycogen deposition in muscle, exhibiting a specific impact on muscle glucose metabolism without affecting adipocytes. This protein is known to interact with IDE (insulin-degrading enzyme) and insulin (INS), forming homodimers as part of its functional mechanisms. Notably, the interaction with insulin not only influences the homodimerization of IAPP but also inhibits fibril formation, suggesting a regulatory role in modulating the assembly of fibrillar structures associated with IAPP. These interactions highlight the intricate interplay of IAPP in the regulation of glucose metabolism and its dynamic relationship with key molecular partners. |



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