



Human islet amyloid polypeptide,IAPP ELISA Kit

Product Code	CSB-E09624h
Abbreviation	IAPP
Target Name	islet amyloid polypeptide
Uniprot No.	P10997
Alias	AMYLIN, DAP, IAP, Islet amyloid polypeptide (diabetes-associated peptide; amylin)
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, urine
Detection Range	47 pg/mL-3000 pg/mL
Sensitivity	11.75 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Signal Transduction
Gene Names	IAPP
Tag Info	quantitative
Protein Description	Sandwich

Description

This Human IAPP ELISA Kit was designed for the quantitative measurement of Human IAPP protein in serum, plasma, urine. It is a Sandwich ELISA kit, its detection range is 47 pg/mL-3000 pg/mL and the sensitivity is 11.75 pg/mL.

Target Details

Islet, or insulinoma, amyloid polypeptide is commonly found in pancreatic islets of patients suffering diabetes mellitus type II, or harboring an insulinoma. While the association of amylin with the development of type II diabetes has been known for some time, a direct causative role for amylin has been harder to establish. Studies suggest that amylin, like the related beta-amyloid (Abeta) associated with Alzheimer s disease, can induce apoptotic cell-death in particular cultured cells, an effect that may be relevant to the development of type II diabetes.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%
 Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays):CV%<10%



Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human IAPP in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	83
	Range %	80-86
1:2	Average %	102
	Range %	98-106
1:4	Average %	93
	Range %	90-96
1:8	Average %	105
	Range %	101-109

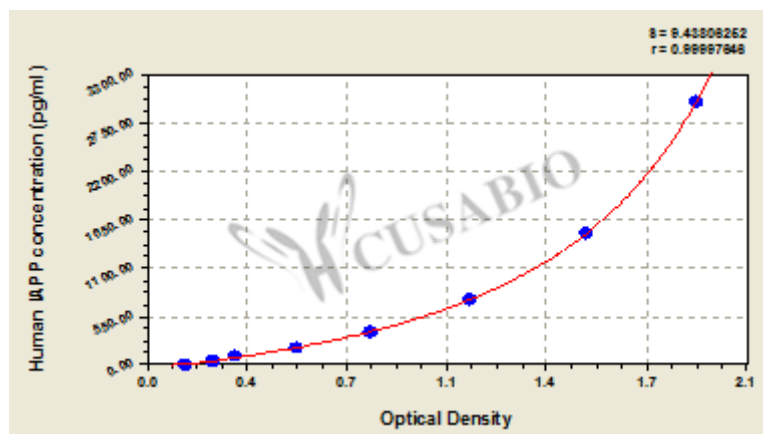
Recovery

The recovery of human IAPP spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	89	85-93
EDTA plasma (n=4)	102	98-106

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
3000	1.901	1.932	1.917	1.774
1500	1.547	1.527	1.537	1.394
750	1.125	1.136	1.131	0.988
375	0.798	0.778	0.788	0.645
187.5	0.537	0.528	0.533	0.390
94	0.326	0.312	0.319	0.176
47	0.244	0.241	0.243	0.100
0	0.145	0.140	0.143	?

**Msd**

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