



Human Pancreatic Amylase,PAMY ELISA Kit

Product Code	CSB-E09691h
Protein Biological Process 2	glyconeogenesis and glycometabolism
Abbreviation	AMY2A
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	amylase, alpha 2A (pancreatic)
Uniprot No.	P04746
Alias	AMY2, AMY2B, PA, 1,4-alpha-D-glucan glucanohydrolase alpha-amylase amylase, pancreatic, alpha-2A found in the pancreas glycogenase pancreatic amylase 2A pancreatic amylase alpha 2A
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Carbohydrate metabolism
Sample Types	serum, plasma, tissue homogenates
Detection Range	47 mU/mL-3000 mU/mL
Sensitivity	11.75 mU/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	Metabolism
Gene Names	AMY2A
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human AMY2A ELISA Kit was designed for the quantitative measurement of Human AMY2A protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 47 mU/mL-3000 mU/mL and the sensitivity is 11.75 mU/mL.
Target Details	Amylases are secreted proteins that hydrolyze 1,4-alpha-glucoside bonds in oligosaccharides and polysaccharides, and thus catalyze the first step in digestion of dietary starch and glycogen. The human genome has a cluster of



several amylase genes that are expressed at high levels in either salivary gland or pancreas. This gene encodes an amylase isoenzyme produced by the pancreas.

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 PAMY 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 %	95
	Range %	89-99
1:2	Average %	102
	Range %	96-107
1:4	Average %	94
	Range %	87-98
1:8	Average %	86
	Range %	81-92

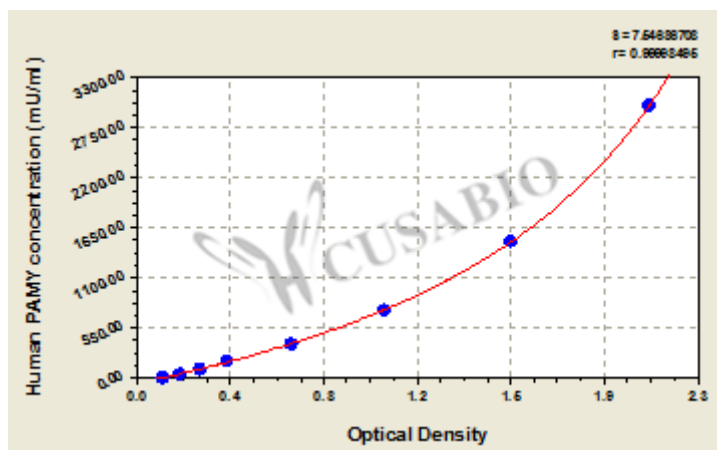
Recovery

The recovery of human PAMY 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)	98	91-103
EDTA plasma (n=4)	102	96-105

Typical

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



mU/ml OD1 OD2 Average Corrected

3000	2.066	2.154	2.110	1.992
1500	1.496	1.589	1.543	1.425
750	1.007	1.043	1.025	0.907
375	0.634	0.647	0.641	0.523
187.5	0.375	0.382	0.379	0.261
93.75	0.267	0.273	0.270	0.152
46.88	0.186	0.189	0.188	0.070
0	0.117	0.118	0.118	?

Msds

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