



Human alpha-amylase(AMY1) ELISA Kit

Product Code	CSB-E14075h
Abbreviation	AMY1
Protein Biological Process 1	Transcription/Transcription regulation
Target Name	alpha-amylase
Uniprot No.	P04745
Alias	1,4-alpha-D-glucan glucanohydrolase 1, Salivary alpha-amylase, AMY1A, AMY1B, AMY1C
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Transcription
Sample Types	serum, saliva, tissue homogenates
Detection Range	7.8 IU/mL-500 IU/mL
Sensitivity	1.95 IU/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	AMY1A
Tag Info	quantitative
Protein Description	Sandwich

Description

This Human AMY1 ELISA Kit was designed for the quantitative measurement of Human AMY1 protein in serum, saliva, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 7.8 IU/mL-500 IU/mL and the sensitivity is 1.95 IU/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 salivary gland.



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 AMY1 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 %	88
	Range %	81-93
1:2	Average %	92
	Range %	89-96
1:4	Average %	90
	Range %	84-96
1:8	Average %	93
	Range %	86-98

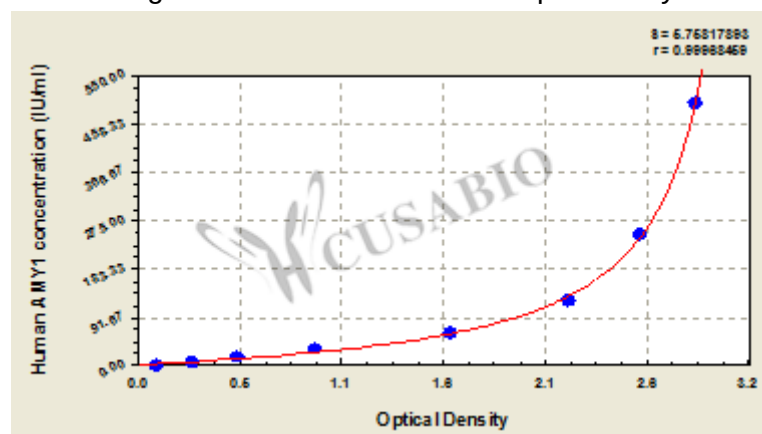
Recovery

The recovery of human AMY1 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)	100	96-107

Typical

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



IU/ml	OD1	OD2	Average	Corrected
500	2.991	2.789	2.890	2.788
250	2.607	2.604	2.606	2.504
125	2.254	2.213	2.234	2.132
62.5	1.682	1.569	1.626	1.524
31.2	0.931	0.924	0.928	0.826
15.6	0.522	0.513	0.518	0.416
7.8	0.291	0.288	0.290	0.188
0	0.106	0.098	0.102	?

Msds

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