



Mouse pancreatic alpha amylase (AMY2A)ELISA kit

Product Code	CSB-EL001689MO
Protein Biological Process 2	glyconeogenesis and glycometabolism
Abbreviation	AMY2A
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	pancreatic alpha amylase (AMY2A)
Uniprot No.	P00688
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	Mus musculus (Mouse)
Protein Biological Process 3	Carbohydrate metabolism
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
Detection Range	9.38 mU/mL-600 mU/mL
Sensitivity	2.3 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	Amy2
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse AMY2A ELISA Kit was designed for the quantitative measurement of Mouse AMY2A protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 9.38 mU/mL-600 mU/mL and the sensitivity is 2.3 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 mouse AMY2A 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)
	Average %	97
1:1	Range %	92-105
	Average %	92
1:2	Range %	88-96
	Average %	86
1:4	Range %	80-92
	Average %	89
1:8	Range %	84-97

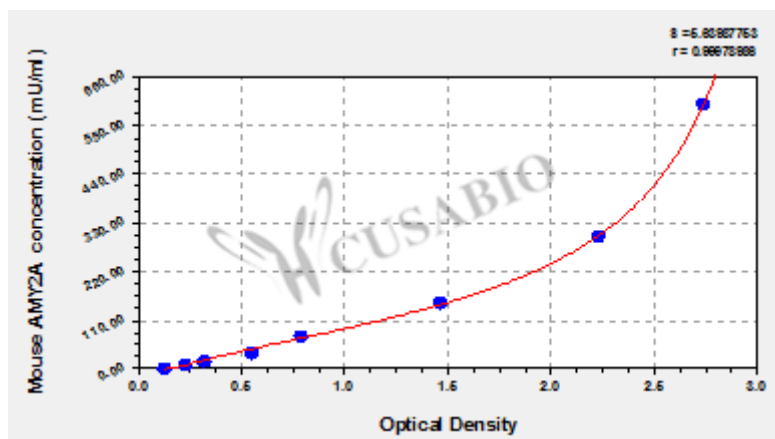
Recovery

The recovery of mouse AMY2A 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)	91	87-97
EDTA plasma (n=4)	101	94-107

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
600	2.680	2.714	2.697	2.563
300	2.164	2.235	2.200	2.066
150	1.467	1.421	1.444	1.310
75	0.759	0.811	0.785	0.651
37.5	0.533	0.564	0.549	0.415
18.75	0.317	0.326	0.322	0.188
9.38	0.227	0.241	0.234	0.100
0	0.128	0.139	0.134	?

Msds

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