



# Mouse Creatine kinase M-type(CKM) ELISA kit

<b>Product Code</b>	CSB-EL005459MO
<b>Abbreviation</b>	CKM
<b>Target Name</b>	creatine kinase, muscle
<b>Uniprot No.</b>	P07310
<b>Alias</b>	CKMM, M-CK, creatine kinase M chain creatine kinase-M muscle creatine kinase
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Sample Types</b>	serum, plasma
<b>Detection Range</b>	1.56 mU/mL-100 mU/mL
<b>Sensitivity</b>	0.39 mU/mL
<b>Assay Time</b>	1-5h
<b>Sample Volume</b>	50-100ul
<b>Detection Wavelength</b>	450 nm
<b>Lead Time</b>	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
<b>Research Area</b>	Metabolism
<b>Gene Names</b>	Ckm
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich
<b>Description</b>	This Mouse CKM ELISA Kit was designed for the quantitative measurement of Mouse CKM protein in serum, plasma. It is a Sandwich ELISA kit, its detection range is 1.56 mU/mL-100 mU/mL and the sensitivity is 0.39 mU/mL.
<b>Target Details</b>	This protein is a cytoplasmic enzyme involved in energy homeostasis and is an important serum marker for myocardial infarction. The encoded protein reversibly catalyzes the transfer of phosphate between ATP and various phosphogens such as creatine phosphate. It acts as a homodimer in striated muscle as well as in other tissues, and as a heterodimer with a similar brain isozyme in heart. The encoded protein is a member of the ATP:guanido phosphotransferase protein family.
<b>Product Precision</b>	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 CKM 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 %	90
	Range %	86-95
1:2	Average %	98
	Range %	92-100
1:4	Average %	90
	Range %	87-96
1:8	Average %	91
	Range %	85-95

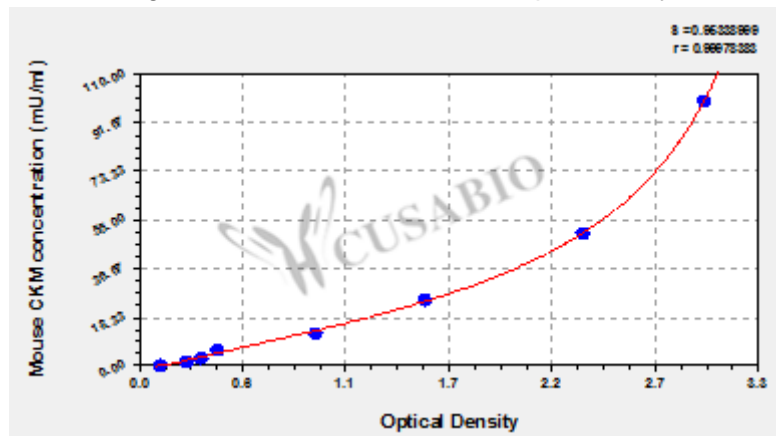
## Recovery

The recovery of mouse CKM 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)	93	89-99
EDTA plasma (n=4)	99	95-106

## 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
100	2.893	3.112	3.003	2.890
50	2.323	2.394	2.359	2.246
25	1.487	1.555	1.521	1.408
12.5	0.902	0.980	0.941	0.828
6.25	0.431	0.408	0.420	0.307
3.12	0.347	0.321	0.334	0.221
1.56	0.248	0.260	0.254	0.141
0	0.115	0.110	0.113	

## Msds

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