Mouse choline acetyltransterase(ChAT)ELISA Kit

Product Code	CSB-E17524m
Abbreviation	CHAT
Protein Biological Process 1	Neurobiology
Target Name	choline acetyltransterase(ChAT
Uniprot No.	Q03059
Alias	CMS1A, CMS1A2, acetyl CoA:choline O-acetyltransferase
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Neurotransmitter biosynthesis
Sample Types	serum, plasma, tissue homogenates, cell culture supernates
Detection Range	15.6 pg/mL-1000 pg/mL
Sensitivity	3.9 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	Neuroscience
Gene Names	Chat
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse CHAT ELISA Kit was designed for the quantitative measurement of Mouse CHAT protein in serum, plasma, tissue homogenates, cell culture supernates. It is a Sandwich ELISA kit, its detection range is 15.6 pg/mL-1000 pg/mL and the sensitivity is 3.9 pg/mL.
Target Details	This gene encodes an enzyme which catalyzes the biosynthesis of the neurotransmitter acetylcholine. This gene product is a characteristic feature of cholinergic neurons, and changes in these neurons may explain some of the symptoms of Alzheimer disease. Mutations in this gene are associated with congenital myasthenic syndrome associated with episodic apnea. Multiple transcript variants encoding different isoforms have been found for this gene, and some of these variants have been shown to encode more than one isoform.

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 ChAT 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)
1:100	Average %	92
	Range %	88-96
1:200	Average %	87
	Range %	82-91
1:400	Average %	103
	Range %	99-108
1:800	Average %	95
	Range %	90-100

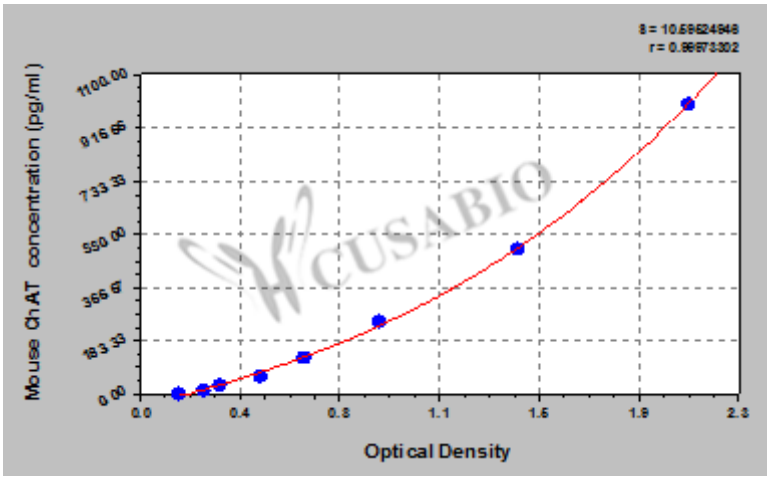
Recovery

The recovery of mouse ChAT 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)	96	91-100
EDTA plasma (n=4)	92	88-96

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
1000	2.042	2.136	2.089	1.933
500	1.407	1.481	1.444	1.288
250	0.893	0.947	0.920	0.764
125	0.610	0.658	0.634	0.478
62.5	0.475	0.463	0.469	0.313
31.2	0.321	0.305	0.313	0.157
15.6	0.254	0.249	0.252	0.096
0	0.159	0.152	0.156	?

Msds

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