



# Mouse Orexin A ELISA Kit

<b>Product Code</b>	CSB-E08861m
<b>Abbreviation</b>	Orexin A
<b>Target Name</b>	Orexin A
<b>Uniprot No.</b>	O55241
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Sample Types</b>	serum, plasma, tissue homogenates, cell lysates
<b>Detection Range</b>	78 pg/mL-5000 pg/mL
<b>Sensitivity</b>	19.5 pg/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>	Hcrt
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich

## Description

The Mouse Orexin A ELISA Kit is a powerful tool for quantitative analysis of Orexin A protein levels in mouse serum, plasma, tissue homogenates, and cell lysates. Orexin A, also known as hypocretin-1, is a neuropeptide hormone that plays a crucial role in regulating sleep-wake cycles, appetite, and energy metabolism.

The Mouse Orexin A ELISA Kit has a wide detection range of 78 pg/mL-5000 pg/mL and a high sensitivity of 19.5 pg/mL, ensuring precise and accurate measurements even at low concentrations. The kit uses a sandwich assay principle, which involves the use of two monoclonal antibodies specific to the Orexin A protein.

The assay time for the kit is 1-5 hours, and the sample volume required is 50-100ul. Detection is done at a wavelength of 450 nm, making it easy to read and interpret the results. The kit is suitable for use in metabolism research.

## 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 orexin A 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 %	94
1:1	Range %	87-98
	Average %	103
1:2	Range %	94-107
	Average %	94
1:4	Range %	82-98
	Average %	104
1:8	Range %	96-108

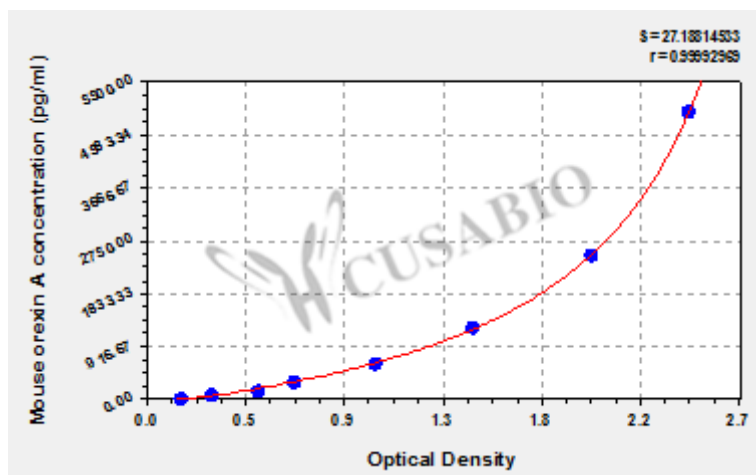
#### Recovery

The recovery of mouse orexin A 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)	105	96-109
EDTA plasma (n=4)	100	89-103

#### 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
5000	2.489	2.413	2.451	2.284
2500	2.039	1.982	2.011	1.844
1250	1.461	1.500	1.481	1.314
625	1.064	1.018	1.041	0.874
312	0.693	0.666	0.680	0.513
156	0.508	0.525	0.517	0.350
78	0.304	0.314	0.309	0.142
0	0.168	0.166	0.167	?

## Msds

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