



Human Carboxypeptidase E(CPE) ELISA kit

Product Code	CSB-EL005886HU
Abbreviation	CPE
Target Name	carboxypeptidase E
Uniprot No.	P16870
Alias	N/A
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	39.06 pg/mL-2500 pg/mL
Sensitivity	9.76 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	Metabolism
Gene Names	CPE
Tag Info	quantitative
Protein Description	Sandwich

Description

This Human CPE ELISA Kit was designed for the quantitative measurement of Human CPE protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 39.06 pg/mL-2500 pg/mL and the sensitivity is 9.76 pg/mL.

Target Details

This gene encodes a carboxypeptidase that cleaves C-terminal amino acid residues and is involved in the biosynthesis of peptide hormones and neurotransmitters, including insulin. It is a peripheral membrane protein. The protein specifically binds regulated secretory pathway proteins, including prohormones, but not constitutively secreted proteins. Mutations in this gene are implicated in type II diabetes.

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 CPE 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 %	105
1:1	Range %	94-109
	Average %	107
1:2	Range %	98-111
	Average %	92
1:4	Range %	84-95
	Average %	98
1:8	Range %	90-102

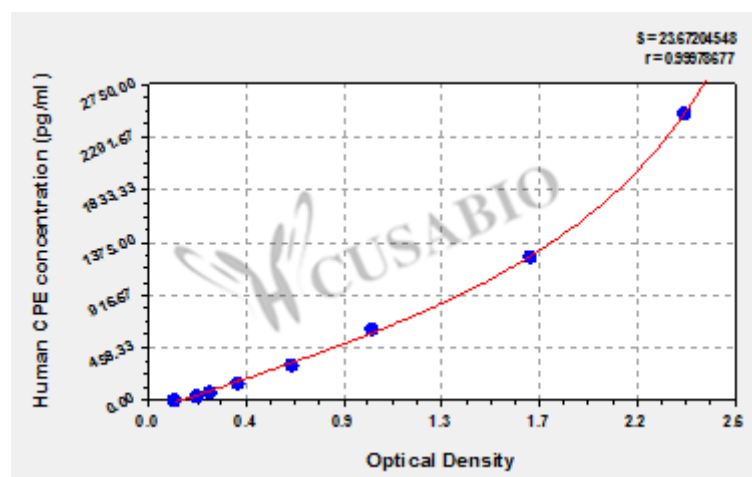
Recovery

The recovery of human CPE 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	84-94
EDTA plasma (n=4)	101	95-104

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
2500	2.410	2.333	2.372	2.246
1250	1.712	1.679	1.696	1.570
625	1.029	0.968	0.999	0.873
312.5	0.634	0.655	0.645	0.519
156.25	0.410	0.401	0.406	0.280
78.12	0.280	0.284	0.282	0.156
39.06	0.218	0.225	0.222	0.096
0	0.125	0.127	0.126	?



Msd

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