



Human cystathionine β -synthase(CBS) ELISA Kit

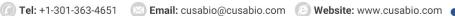
Product Code	CSB-E13314h
Protein Biological Process 2	Amino-acid biosynthesis and metabolism
Abbreviation	CBS
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	cystathionine-beta-synthase
Uniprot No.	P35520
Alias	HIP4, OTTHUMP00000109415 OTTHUMP00000109416 OTTHUMP00000109418 bet a-thionase cystathionine beta-synthase methylcysteine synthase serine sulfhydrase cystathionine β-synthase(CBS) cystathionine beta-synthase(CBS)
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Amino-acid biosynthesis
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	125 pg/mL-8000 pg/mL
Sensitivity	31.25 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	CBS
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human CBS ELISA Kit was designed for the quantitative measurement of Human CBS protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 125 pg/mL-8000 pg/mL and the sensitivity is 31.25 pg/mL.
Target Details	This protein acts as a homotetramer to catalyze the conversion of homocysteine to cystathionine, the first step in the transsulfuration pathway. The encoded

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protein is allosterically activated by adenosyl-methionine and uses pyridoxal phosphate as a cofactor. Defects in this gene can cause cystathionine betasynthase deficiency (CBSD), which can lead to homocystinuria.

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

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human CBS 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
Range %	90-98
Average %	106
Range %	102-110
Average %	96
Range %	90-101
Average %	88
Range %	86-96
	Average % Range % Average % Range % Average % Average % Average %

Recovery

The recovery of human CBS 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)	103	98-106
EDTA plasma (n=4)	94	91-97

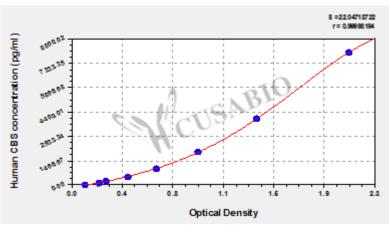
Typical

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 8000 2.144 2.033 2.089 1.978 4000 1.388 1.411 1.400 1.289 2000 0.932 0.989 0.961 0.850 1000 0.655 0.636 0.646 0.535 500 0.445 0.424 0.435 0.324 250 0.266 0.268 0.267 0.156 125 0.212 0.221 0.217 0.106 0 0.110 0.112 0.111 ?

Msds

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