



# Human Caspase-7(CASP7) ELISA kit

<b>Product Code</b>	CSB-EL004552HU
<b>Abbreviation</b>	CASP7
<b>Protein Biological Process 1</b>	Apoptosis/Autophagy
<b>Target Name</b>	caspase 7, apoptosis-related cysteine peptidase
<b>Uniprot No.</b>	P55210
<b>Alias</b>	CMH-1, ICE-LAP3, MCH3, ICE-like apoptotic protease 3 Lice2 alpha/beta/gamma OTTHUMP00000020511 OTTHUMP00000020514 apoptotic protease MCH-3 caspase 7 caspase 7 isoform delta caspase 7, apoptosis-rela
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Protein Biological Process 3</b>	Apoptosis
<b>Sample Types</b>	serum, plasma, cell lysates
<b>Detection Range</b>	62.5 pg/mL-4000 pg/mL
<b>Sensitivity</b>	15.6 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>	Cell Biology
<b>Gene Names</b>	CASP7
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich

**Description**

This Human CASP7 ELISA Kit was designed for the quantitative measurement of Human CASP7 protein in serum, plasma, cell lysates. It is a Sandwich ELISA kit, its detection range is 62.5 pg/mL-4000 pg/mL and the sensitivity is 15.6 pg/mL.

**Target Details**

This gene encodes a protein which is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. The precursor of this caspase is cleaved by caspase 3 and 10. It is activated upon



cell death stimuli and induces apoptosis. Alternative splicing results in four transcript variants, encoding three distinct isoforms.

## 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 CASP7 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 %	85-98
	Average %	103
1:2	Range %	95-107
	Average %	90
1:4	Range %	83-94
	Average %	98
1:8	Range %	90-102

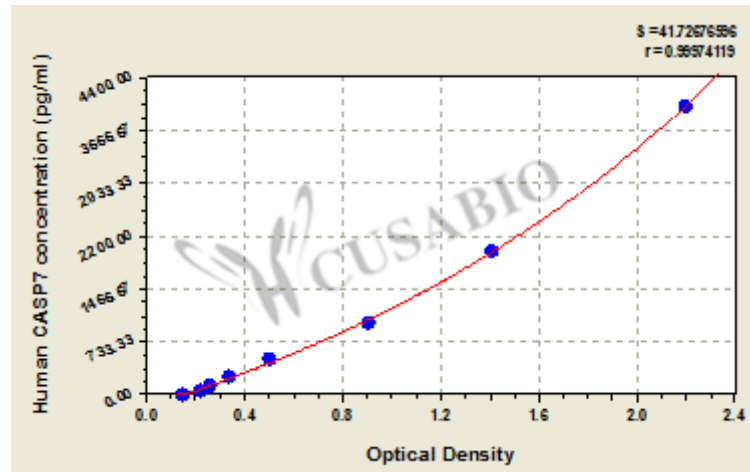
## Recovery

The recovery of human CASP7 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)	92	85-96
EDTA plasma (n=4)	99	91-103

## 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
4000	2.203	2.156	2.180	2.023
2000	1.377	1.433	1.405	1.248
1000	0.902	0.915	0.909	0.752
500	0.504	0.510	0.507	0.350
250	0.353	0.347	0.350	0.193
125	0.272	0.266	0.269	0.112
62.5	0.234	0.225	0.230	0.073
0	0.158	0.156	0.157	?

## Msds

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