



Human Alpha-enolase (ENO1/ENO1L1/MBPB1/MPB1) ELISA kit

Product Code	CSB-E17177h
Protein Biological Process 2	glyconeogenesis and glycometabolism
Abbreviation	ENO1
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	enolase 1, (alpha)
Uniprot No.	P06733
Alias	ENO1L1, MBP-1, MPB1, NNE, PPH, 2-phospho-D-glycerate hydro-lyase MYC promoter-binding protein 1 alpha enolase like 1 enolase 1 non-neural enolase phosphopyruvate hydratase tau-crystallin
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Glycolysis
Sample Types	serum, tissue homogenates, plasma
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 ng/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
Quality Control	<p>A microplate reader capable of measuring absorbance at 450 nm, with the correction wavelength set at 540 nm or 570 nm.</p> <p>An incubator can provide stable incubation conditions up to 37°C±5°C.</p> <p>Centrifuge</p> <p>Vortex</p> <p>Squirt bottle, manifold dispenser, or automated microplate washer</p> <p>Absorbent paper for blotting the microtiter plate</p> <p>50-300ul multi-channel micropipette</p> <p>Pipette tips</p> <p>Single-channel micropipette with different ranges</p> <p>100ml and 500ml graduated cylinders</p> <p>Deionized or distilled water</p>



Timer
Test tubes for dilution

Gene Names	ENO1
Tag Info	quantitative
Protein Description	Sandwich
Component	<p>A micro ELISA plate ---The 96-well plate has been pre-coated with an anti-human ENO-1 antibody. This dismountable microplate can be divided into 12 x 8 strip plates.</p> <p>Two vials lyophilized standard ---Dilute a bottle of the standard at dilution series, read the OD values, and then draw a standard curve.</p> <p>One vial Biotin-labeled ENO-1 antibody (100 x concentrate) (120 µl/bottle) ---Act as the detection antibody.</p> <p>One vial HRP-avidin (100 x concentrate) (120 µl/bottle) ---Bind to the detection antibody and react with the TMB substrate to make the solution chromogenic.</p> <p>One vial Biotin-antibody Diluent (15 ml/bottle) ---Dilute the high concentration Biotin-antibody to an appropriate working solution.</p> <p>One vial HRP-avidin Diluent (15 ml/bottle) ---Dilute the high concentration HRP-avidin solution to an appropriate solution.</p> <p>One vial Sample Diluent (50 ml/bottle)---Dilute the sample to an appropriate concentration.</p> <p>One vial Wash Buffer (25 x concentrate) (20 ml/bottle) ---Wash away unbound or free substances.</p> <p>One vial TMB Substrate (10 ml/bottle) ---Act as the chromogenic agent. TMB interacts with HRP, eliciting the solution turns blue.</p> <p>One vial Stop Solution (10 ml/bottle) ---Stop the color reaction. The solution color immediately turns from blue to yellow.</p> <p>Four Adhesive Strips (For 96 wells) ---Cover the microplate when incubation.</p> <p>An instruction manual</p>
Description	<p>This Human ENO1 ELISA Kit was designed for the quantitative measurement of Human ENO1 protein in serum, tissue homogenates, plasma. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL .</p>
Target Details	<p>This gene encodes one of three enolase isoenzymes found in mammals; it encodes alpha-enolase, a homodimeric soluble enzyme, and also encodes a shorter monomeric structural lens protein, tau-crystallin. The two proteins are made from the same message. The full length protein, the isoenzyme, is found in the cytoplasm. The shorter protein is produced from an alternative translation start, is localized to the nucleus, and has been found to bind to an element in the c-myc promoter. A pseudogene has been identified that is located on the other arm of the same chromosome.</p>
Product Precision	<p>Intra-assay Precision (Precision within an assay): CV%<8%</p> <p>Three samples of known concentration were tested twenty times on one plate to assess.</p> <p>Inter-assay Precision (Precision between assays): CV%<10%</p>



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 ENO1/ENO1L1/MBPB1/MPB1 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)
1:1	Average %	94
	Range %	90-97
1:2	Average %	92
	Range %	88-96
1:4	Average %	94
	Range %	89-98
1:8	Average %	100
	Range %	96-105

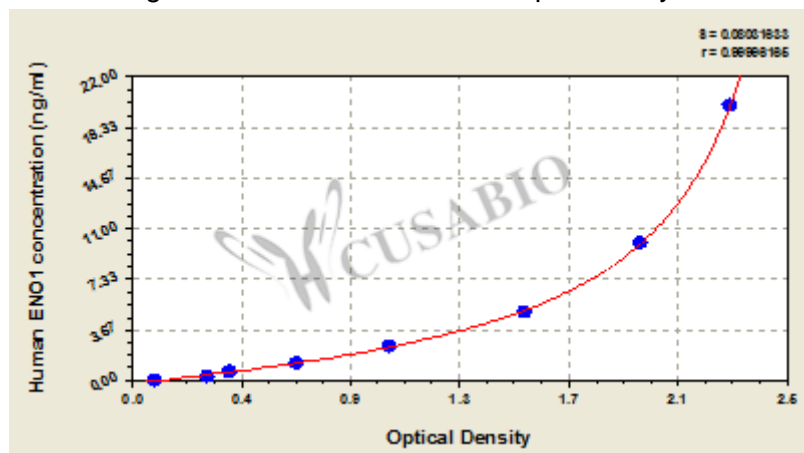
Recovery

The recovery of human ENO1/ENO1L1/MBPB1/MPB1 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)	94	89-100
EDTA plasma (n=4)	96	90-102

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	Corrected
20	2.321	2.319	2.320	2.225
10	1.982	1.967	1.975	1.880
5	1.470	1.576	1.523	1.428
2.5	1.003	0.995	0.999	0.904
1.25	0.638	0.652	0.645	0.550
0.625	0.380	0.391	0.386	0.291
0.312	0.293	0.299	0.296	0.201
0	0.093	0.097	0.095	?

Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E17177h.pdf","filename":"MSDS"}}