



# Rat $\alpha$ -enolase ELISA Kit

|                                     |   |
|-------------------------------------|---|
| <b>Product Code</b>                 | CSB-E17439r   |
| <b>Protein Biological Process 2</b> | glyconeogenesis and glycometabolism   |
| <b>Abbreviation</b>                 | ENO1  |
| <b>Protein Biological Process 1</b> | Biosynthesis/Metabolism   |
| <b>Target Name</b>                  | $\alpha$ -enolase   |
| <b>Uniprot No.</b>                  | P04764  |
| <b>Alias</b>                        | 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   $\alpha$ -enolase alpha-enolase                |
| <b>Product Type</b>                 | ELISA Kit   |
| <b>Immunogen Species</b>            | Rattus norvegicus (Rat)   |
| <b>Protein Biological Process 3</b> | Glycolysis  |
| <b>Sample Types</b>                 | serum, plasma, tissue homogenates   |
| <b>Detection Range</b>              | 0.625 ng/mL-40 ng/mL  |
| <b>Sensitivity</b>                  | 0.156 ng/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>                   | Eno1  |
| <b>Tag Info</b>                     | quantitative  |
| <b>Protein Description</b>          | Sandwich  |
| <b>Description</b>                  | This Rat ENO1 ELISA Kit was designed for the quantitative measurement of Rat ENO1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.625 ng/mL-40 ng/mL and the sensitivity is 0.156 ng/mL. |
| <b>Target Details</b>               | 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.

## 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 rat  $\alpha$ -enolase 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 % | 93         |
|     | Range %   | 88-97      |
| 1:2 | Average % | 102        |
|     | Range %   | 97-107     |
| 1:4 | Average % | 101        |
|     | Range %   | 95-105     |
| 1:8 | Average % | 94         |
|     | Range %   | 91-98      |

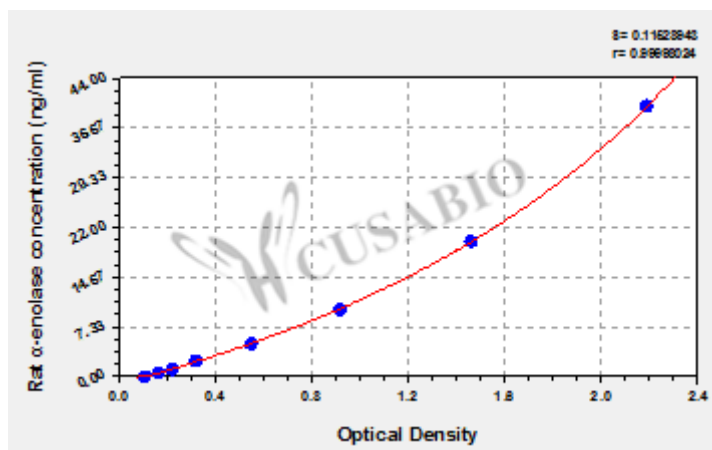
## Recovery

The recovery of rat  $\alpha$ -enolase 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                | 99-108 |
| EDTA plasma (n=4) | 87                 | 84-92  |

## 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 |
|-------|-------|-------|---------|-----------|
| 40    | 2.191 | 2.275 | 2.233   | 2.111     |
| 20    | 1.448 | 1.538 | 1.493   | 1.371     |
| 10    | 0.921 | 0.963 | 0.942   | 0.820     |
| 5     | 0.563 | 0.572 | 0.568   | 0.446     |
| 2.5   | 0.334 | 0.341 | 0.338   | 0.216     |
| 1.25  | 0.231 | 0.245 | 0.238   | 0.116     |
| 0.625 | 0.173 | 0.179 | 0.176   | 0.054     |
| 0     | 0.121 | 0.122 | 0.122   | ?         |

## Msds

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