

## Rat Meprin A Alpha (MEP1a) ELISA Kit | MEP1a elisa kit

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CATALOG #  
**AAA148379**

REACTIVITY  
**Rat**

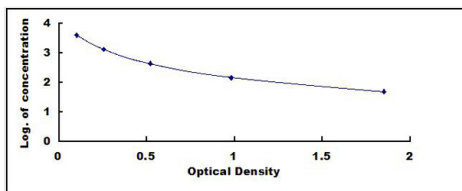
### PRODUCT SYNONYMS

Meprin A Alpha (MEP1a); Rat Meprin A Alpha (MEP1a) ELISA Kit; PPHA; PABA Peptide Hydrolase; Endopeptidase-2; N-benzoyl-L-tyrosyl-P-amino-Benzoic Acid Hydrolase Subunit Alpha; MEP1a elisa kit

### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                        | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Specificity                                       | This assay has high sensitivity and excellent specificity for detection of Meprin A Alpha (MEP1a). No significant cross-reactivity or interference between Meprin A Alpha (MEP1a) and analogues was observed.                                                                                                                                                                                                                                                                              |
| Sequence Length                                   | 748                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type                                        | Competitive Inhibition                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Samples                                           | Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                       |
| Detection Range                                   | 49.4-4,000pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Sensitivity                                       | 15.2pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Application                                       | Enzyme-linked immunosorbent assay for Antigen Detection.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Intra-assay Precision (Precision within an assay) | 3 samples with low, middle and high level Meprin A Alpha (MEP1a) were tested 20 times on one plate, respectively.                                                                                                                                                                                                                                                                                                                                                                          |
| Inter-assay Precision (Precision between assays)  | 3 samples with low, middle and high level Meprin A Alpha (MEP1a) were tested on 3 different plates, 8 replicates in each plate.                                                                                                                                                                                                                                                                                                                                                            |
| CV(%) =                                           | SD/meanX100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Intra-Assay                                       | CV<10%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Inter-Assay                                       | CV<12%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Preparation and Storage                           | The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.<br>To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end. |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for MEP1a elisa kit | This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to Meprin A Alpha (MEP1a) has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled Meprin A Alpha (MEP1a) and unlabeled Meprin A Alpha (MEP1a) (Standards or samples) with the pre-coated antibody specific to Meprin A Alpha (MEP1a). After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of Meprin A Alpha (MEP1a) in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of Meprin A Alpha (MEP1a) in the sample. |
| Product Categories/Family for MEP1a elisa kit   | Metabolic pathway                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

NCBI AND UNIPROT INFORMATION

|                                  |                        |
|----------------------------------|------------------------|
| NCBI GI #                        | 6981196                |
| NCBI GeneID                      | 25684                  |
| NCBI Accession #                 | NP_037275.1            |
| NCBI GenBank Nucleotide #        | NM_013143.1            |
| UniProt Accession #              | Q64230; Q642C9         |
| Molecular Weight                 | 85,123 Da              |
| NCBI Official Full Name          | meprin A subunit alpha |
| NCBI Official Synonym Full Names | meprin A subunit alpha |
| NCBI Official Symbol             | Mep1a                  |
| NCBI Protein Information         | meprin A subunit alpha |
| UniProt Protein Name             | Meprin A subunit alpha |
| UniProt Gene Name                | Mep1a                  |
| UniProt Synonym Gene Names       | E-24.18                |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/meprin-a-alpha-mep1a/148379>