

# Mouse Prolyl endopeptidase-like (PREPL) ELISA Kit

Catalog No: #EK11420



Package Size: #EK11420-1 48T #EK11420-2 96T

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## Description

|                    |   |
|--------------------|---|
| Product Name       | Mouse Prolyl endopeptidase-like (PREPL) ELISA Kit   |
| Brief Description  | ELISA Kit   |
| Applications       | ELISA   |
| Species Reactivity | Mouse (Mus musculus)  |
| Other Names        | FLJ16627; KIAA0436;<br>OTTHUMP00000202420 OTTHUMP00000202421 OTTHUMP00000202424 OTTHUMP00000202425 OTTHUMP00000202426 putative prolyl oligopeptidase  |
| Accession No.      | Q8C167  |
| Uniprot            | Q8C167  |
| GeneID             | 213760;   |
| Storage            | The stability of ELISA 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><br>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C). |

## Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.063 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PREPL in samples. An antibody specific for PREPL has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPREPL present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PREPL is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PREPL bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**PREPL belongs to the prolyl oligopeptidase subfamily of serine peptidases. Mutations in this gene have been associated with hypotonia-cystinuria syndrome, also known as the 2p21 deletion syndrome. Several alternatively spliced transcript variants encoding either the same or different isoforms have been described for this gene.

The longest deduced protein contains 727 amino acids and has a propeller domain in its N-terminal half and a catalytic domain, including the catalytic triad (ser, asp, his) essential for serine peptidases, in its C-terminal half. In sharp contrast to PREP and oligopeptidase B, which require both amino- and carboxy-terminal sequences for activity, PREPL activity appeared to depend only on the carboxy-terminal domain.

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Note: This product is for in vitro research use only