



Recombinant Protein Technical Manual  
Recombinant Mouse Prolyl endopeptidase/PREP  
Protein (His Tag)  
RPES3186

Product Data:

**Product SKU:** RPES3186

**Size:** 10µg

**Species:** Mouse

**Expression host:** Baculovirus-Insect Cells

**Uniprot:** Q9QUR6

Protein Information:

**Molecular Mass:** 82.9 kDa

**AP Molecular Mass:** 79-83 kDa

**Tag:** N-His

**Bio-activity:**

**Purity:** > 95 % as determined by SDS-PAGE

**Endotoxin:** < 1.0 EU per µg of the protein as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% glycerol, 3mM DTT

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** AI047692;AI450383;D10Wsu136e;PEP;Pop

## Immunogen Information:

**Sequence:** Leu2-Gln710

## Background:

Prolyl endopeptidase, also known as PREP, belongs to a distinct class of serine peptidases. It is a large cytosolic enzyme which was first described in the cytosol of rabbit brain as an oligopeptidase. Prolyl endopeptidase degrades the nonapeptide bradykinin at the Pro-Phe bond. It is involved in the maturation and degradation of peptide hormones and neuropeptides such as alpha-melanocyte-stimulating hormone, luteinizing hormone-releasing hormone (LH-RH), thyrotropin-releasing hormone, angiotensin, neurotensin, oxytocin, substance P and vasopressin. Prolyl endopeptidase's activity is confined to action on oligopeptides of less than 10 kD and it has an absolute requirement for the trans-configuration of the peptide bond preceding proline. It cleaves peptide bonds at the C-terminal side of proline residues.