



Recombinant Protein Technical Manual

Recombinant Rat ENPEP/Aminopeptidase A Protein (aa 41-945, His Tag)(Active) RPES3731

Product Data:

Product SKU: RPES3731

Size: 10µg

Species: Rat

Expression host: Baculovirus-Insect Cells

Uniprot: P50123

Protein Information:

Molecular Mass: 106 kDa

AP Molecular Mass: 116 kDa

Tag: N-His

Bio-activity: Measured by its ability to cleave the fluorogenic peptide substrate, Glu-7-amido-4-methyl coumarin (Glu-AMC). The specific activity is >1, 500 pmoles/min/µg.

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% gly

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

Application:

Synonyms: ENPEP

Immunogen Information:

Sequence: Arg41-Pro945

Background:

ENPEP, also known as aminopeptidase A, is a member of the peptidase M1 family. Members of this family are involved in response to cadmium ion and proteolysis. They located in 6 components and are expressed in 26 plant structures. ENPEP is expressed by epithelial cells of the proximal tubule cells and the glomerulus of the nephron. It also can be detected in a variety of other tissues. ENPEP probably plays a role in regulating growth and differentiation of early B-lineage cells. It also may play a role in the catabolic pathway of the renin-angiotensin system. ENPEP is a zinc-dependent membrane-bound aminopeptidase that catalyzes the cleavage of glutamatic and aspartatic amino acid residues from the N-terminus of polypeptides. It degrades vasoconstricting angiotensin II into angiotensin III and therefore helps to regulate blood pressure.