Recombinant Mouse ENPEP/Aminopeptidase A Protein (His Tag)

Catalog Number: PKSM040935

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

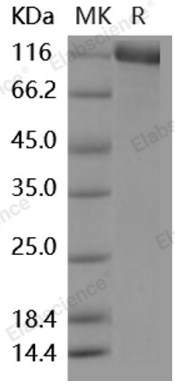
Description

Species	Mouse
Source	Baculovirus-Insect Cells-derived Mouse ENPEP/Aminopeptidase A protein Arg41-Pro945, with an N-terminal His
Calculated MW	106 kDa
Observed MW	113 kDa
Accession	P16406
Bio-activity	Measured by its ability to cleave the fluorogenic peptide substrate, Glu-7-amido-4-methyl coumarin. The specific activity is > 200 pmoles/min/μg.

Properties

Purity	> 91% as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, 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 20 mM Tris, 500 mM NaCl, pH 7.4 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 91 % as determined by reducing SDS-PAGE.

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.

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