

Active Recombinant Human NPEPPS protein, His-tagged

Cat. No. NPEPPS-2500H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human NPEPPS protein(P55786)(141-272 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	141-272 aa
Form	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Puromycin Sensitive Aminopeptidase (PSA) also known as cytosol alanyl aminopeptidase or alanine aminopeptidase (AAP) is used as a biomarker to detect damage to the kidneys, and that may be used to help diagnose certain kidney disorders. It is found at high levels in the urine when there are kidney problems. PSA has been proposed to function in a variety of processes, including metabolism of neuropeptidase, regulation of the cell cycle, and hydrolysis of proteasomal products to amino acids. Besides, Protein Disulfide Isomerase A3 (PDIA3) has been identified as an interactor of PSA, thus a binding ELISA assay was conducted to detect the interaction of recombinant human PSA and recombinant human PDIA3. Briefly, PSA were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to PDIA3-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-PSA pAb, then

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aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50μ stop solution to the wells and read at 450nm immediately. The binding activity of PSA and PDIA3 was shown, and this effect was in a dose dependent manner.

Molecular Mass	16.2kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method).
Purity	> 97%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	NPEPPS aminopeptidase puromycin sensitive [Homo sapiens]
Official Symbol	NPEPPS
Synonyms	NPEPPS; aminopeptidase puromycin sensitive; puromycin-sensitive aminopeptidase; metalloproteinase MP100; MP100; PSA; puromycin sensitive aminopeptidase; cytosol alanyl aminopeptidase; AAP-S;
Gene ID	9520
mRNA Refseq	NM_006310

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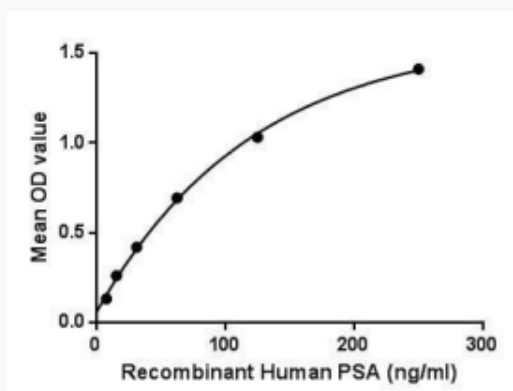
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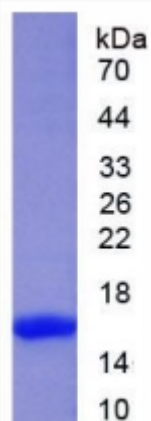
MIM 606793

UniProt ID P55786

Activity



SDS-PAGE



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