

# Human ENPP-1 Protein

Cat. No. ENP-HM102

## Description

<b>Source</b>	Recombinant Human ENPP-1 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Lys98-Asp925.
<b>Accession</b>	P22413
<b>Molecular Weight</b>	The protein has a predicted MW of 96.5 kDa. Due to glycosylation, the protein migrates to 110-115 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

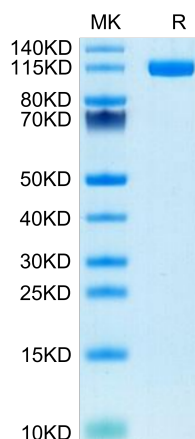
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Ectonucleotide pyrophosphatase/phosphodiesterase (ENPP)-1 is a membrane-bound protein that catalyzes the hydrolysis of extracellular nucleoside triphosphates to monophosphate and extracellular inorganic pyrophosphate (ePPi). Mechanical stimulation regulates ENPP-1 expression.

## Assay Data

### Bis-Tris PAGE

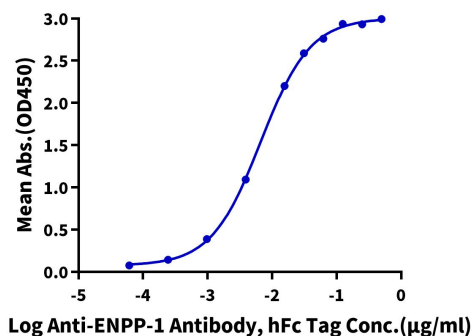


Human ENPP-1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

#### Human ENPP-1, His Tag ELISA

0.1 $\mu\text{g}$  Human ENPP-1, His Tag Per Well



Immobilized Human ENPP-1, His Tag at 1 $\mu\text{g}/\text{ml}$  (100 $\mu\text{l}/\text{well}$ ) on the plate. Dose response curve for Anti-ENPP-1 Antibody, hFc Tag with the EC<sub>50</sub> of 6.7ng/ml determined by ELISA (QC Test).

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#### Bioactivity Data

Measured by its ability to hydrolyze thymidine 5'-monophosphate p-nitrophenyl ester. The specific activity is > 40000 pmol/min/μg, as measured under the described conditions.