

# Biotinylated Human ENPP-1 Protein

Cat. No. ENP-HM402B

## Description

<b>Source</b>	Recombinant Biotinylated Human ENPP-1 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Lys98-Asp925.
<b>Accession</b>	P22413
<b>Molecular Weight</b>	The protein has a predicted MW of 98.29 kDa. Due to glycosylation, the protein migrates to 110-120 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE

## Formulation and Storage

<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in 20mM Tris,150mM NaCl (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 3-6 months after reconstitution. 2-8°C for 2-7 days 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

### Tris-Bis PAGE

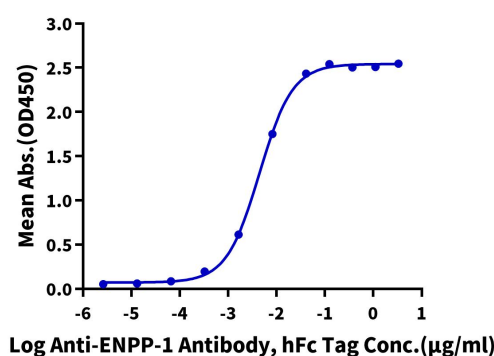


Biotinylated Human ENPP-1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

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

0.05 $\mu\text{g}$  Biotinylated Human ENPP-1, His Tag Per Well



Immobilized Biotinylated Human ENPP-1, His Tag at 0.5 $\mu\text{g}/\text{ml}$  (100 $\mu\text{l}/\text{well}$ ) on the streptavidin precoated plate (5 $\mu\text{g}/\text{ml}$ ). Dose response curve for Anti-ENPP-1 Antibody, hFc Tag with the EC50 of 4.5ng/ml determined by ELISA.