

# Mouse ENPP-1 Protein

Cat. No. ENP-MM102

## Description

|                         |   |
|-------------------------|---|
| <b>Source</b>           | Recombinant Mouse ENPP-1 Protein is expressed from HEK293 with His tag at the C-Terminus.<br>It contains Lys80-Asp906.                |
| <b>Accession</b>        | P06802-1  |
| <b>Molecular Weight</b> | The protein has a predicted MW of 95.99 kDa. Due to glycosylation, the protein migrates to 100-110 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



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

### Bioactivity Data

Measured by its ability to hydrolyze thymidine 5'-monophosphate p-nitrophenyl ester. The specific activity is > 100000 pmol/min/ $\mu\text{g}$ , as measured under the described conditions.