

# Human ENPP-2/Autotaxin Protein

Cat. No. ENP-HM101

## Description

<b>Source</b>	Recombinant Human ENPP-2/Autotaxin Protein is expressed from HEK293 with His tag at the N-Terminus. It contains Asp49-Ile863.
<b>Accession</b>	NP_001035181
<b>Molecular Weight</b>	The protein has a predicted MW of 94.8 kDa. Due to glycosylation, the protein migrates to 95-115 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 > 95% as determined by HPLC

## Formulation and Storage

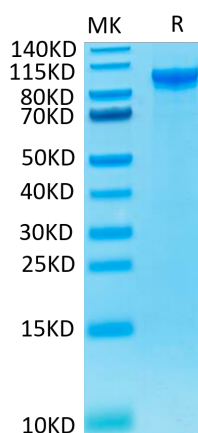
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. 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 2 (ENPP2) also known as Autotaxin, is a secreted lysophospholipase D, which hydrolyzes lysophosphatidylcholine (LPC) into Lysophosphatidic acid (LPA). ENPP2 is an essential protein for normal development and its altered expression is associated with various human diseases.

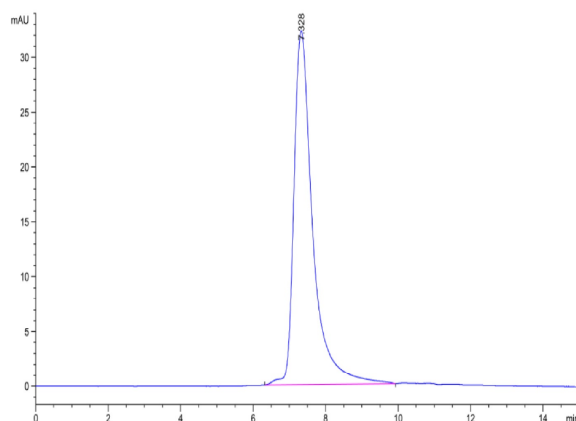
## Assay Data

### Bis-Tris PAGE



Human ENPP-2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of Human ENPP-2 is greater than 95% as determined by SEC-HPLC.

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### Assay Data

#### Bioactivity Data

Measured by its ability to cleave Bis (p-Nitrophenyl) Phosphate (BNPP).  
The specific activity is > 10000 pmol/min/μg, as measured under the described conditions.