

## ENPP-3 Protein, Mouse (HEK293, His)

<b>Cat. No.:</b>	HY-P78705
<b>Synonyms:</b>	ENPP3; CD203c; NPP3; E-NPP3; PD-Ibeta; NPPase; PDNP3
<b>Species:</b>	Mouse
<b>Source:</b>	HEK293
<b>Accession:</b>	Q6DYE8-1 (R46-I874)
<b>Gene ID:</b>	209558
<b>Molecular Weight:</b>	100-120 kDa

### PROPERTIES

#### AA Sequence

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R K P E E Q G S C R      K K C F D S S H R G      L E G C R C D S G C      T G R G D C C W D F
E D T C V K S T Q I      W T C N L F R C G E      N R L E T A L C S C      A D D C L Q R K D C
C A D Y K T V C Q G      E S P W V T E A C A      S S Q E P Q C P P G      F D L P P V I L F S
M D G F R A E Y L Q      T W S T L L P N I N      K L K T C G I H S K      Y M R A M Y P T K T
F P N H Y T I V T G      L Y P E S H G I I D      N N M Y D V H L N K      N F S L S S V E K S
N P A W W S G Q P I      W L T A M Y Q G L K      A A C Y Y W P G S D      V A V N G S F P T I
Y R N Y S N S V P Y      E R R I T T L L Q W      L D L P K A D R P S      F Y T I Y V E E P D
S A G H S S G P V S      A G V I K A L Q S V      D N A F G M L M E G      L K Q R N L H N C V
N I I V L A D H G M      D Q T S C D R V E Y      M T D Y F P K I N F      Y M Y Q G P A P R I
R T R N I P Q D F F      T F N S E E I V R N      L S C R K P D Q H F      K P Y L T P D L P K
R L H Y A K N V R I      D K A H L M V D R Q      W L A F R S K G S S      N C G G G T H G Y N
N E F K S M E A I F      L A H G P S F I E K      T V I E P F E N I E      V Y N L L C D L L H
I E P A P N N G T H      G S L N H L L K T P      F Y K P S H A G E L      S T P A D C G F T T
P L P T D P L D C S      C P A L Q N T P G L      E E Q A N Q R L N L      S E G E V A A T V K
A N L P F G R P R V      M Q K N G D H C L L      Y H R D Y I S G Y G      K A M K M P M W S S
Y T V L K P G D T S      S L P P T V P D C L      R A D V R V A P S E      S Q K C S F Y L A D
K N I T H G F L Y P      A I K G T N E S R Y      D A L I T S N L V P      M Y K E F K K M W D
Y F H E V L L I K Y      A I E R N G L N V V      S G P I F D Y N Y D      G H F D A P D E I T
Q Y V A G T D V P I      P T H Y F V V L T S      C K D Q T H T P D S      C P G W L D V L P F
I V P H R P T N I E      S C S E N K T E D L      W V E E R F Q A H A      A R V R D V E L L T
G L D F Y Q E K A Q      P V S Q I L Q L K T      Y L P T F E T I I
  
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<b>Biological Activity</b>	Immobilized Human ENPP3 at 2 µg/mL (100 µL/well) can bind Anti-ENPP3 Antibody, The ED <sub>50</sub> for this effect is 5.644 ng/mL.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized a 0.22 µm filtered solution of 50 mM Tris, 150 mM NaCl, pH 7.5.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is

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	recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

## DESCRIPTION

### Background

ENPP-3, a hydrolase, exhibits the ability to metabolize various extracellular nucleotides, including ATP, GTP, UTP, and CTP. This enzymatic activity plays a crucial role in modulating immune responses, particularly during inflammation and the chronic phases of allergic reactions. ENPP-3 acts by eliminating extracellular ATP, a signaling molecule that activates basophils and mast cells, leading to the release of inflammatory cytokines. Moreover, in the lumen of the small intestine, ENPP-3 metabolizes extracellular ATP, thereby preventing ATP-induced apoptosis of intestinal plasmacytoid dendritic cells. Besides its involvement in nucleotide metabolism, ENPP-3 also exhibits alkaline phosphodiesterase activity, adding to its multifaceted role in cellular processes.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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