ENPP3 Protein, Human (HEK293, His)

Cat. No.:	HY-P700410
Synonyms:	E-NPP 3; NPP3; PD-Ibeta; NPPase; ENPP3; PDNP3; CD203c; B10; gp130RB13-6
Species:	Human
Source:	HEK293
Accession:	O14638 (L48-I875)
Gene ID:	5169
Molecular Weight:	Approximately 116 kDa

PROPERTIES

AA Sequence

L E K Q G S C R K K C F D A S F R G L E N C R C D V A C K D R G D C C W D F E D
T C V E S T R I W M C N K F R C G E T R L E A S L C S C S D D C L Q R K D C C A
D Y K S V C Q G E T S W L E E N C D T A Q Q S Q C P E G F D L P P V I L F S M D
G F R A E Y L Y T W D T L M 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 N L N K N F S L S S K E Q N N P
A W W H G Q P M W L T A M Y Q G L K A A T Y F W P G S E V A I N G S F P S I Y M
P Y N G S V P F E E R I S T L L K W L D L P K A E R P R F Y T M Y F E E P D S S
G H A G G P V S A R V I K A L Q V V D H A F G M L M E G L K Q R N L H N C V N I
I L L A D H G M D Q T Y C N K M E Y M T D Y F P R I N F F Y M Y E G P A P R I R
A H N I P H D F F S 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 V H L F V D Q Q W L A V R S K S N T N C G G G N H G Y N N
E F R S M E A I F L A H G P S F K E K T E V E P F E N I E V Y N L M C D L L R I
Q P A P N N G T H G S L N H L L K V P F Y E P S H A E E V S K F S V C G F A N P
L P T E S L D C F C P H L Q N S T Q L E Q V N Q M L N L T Q E E I T A T V K V N
L P F G R P R V L Q K N V D H C L L Y H R E Y V S G F G K A M R M P M W S S Y T
V P Q L G D T S P L P P T V P D C L R A D V R V P P S E S Q K C S F Y L A D K N
I T H G F L Y P P A S N R T S D S Q Y D A L I T S N L V P M Y E E F R K M W D Y
F H S V L L I K H A T E R N G V N V V S G P I F D Y N Y D G H F D A P D E I T K
H L A N T D V P I P T H Y F V V L T S C K N K S H T P E N C P G W L D V L P F I
I P H R P T N V E S C P E G K P E A L W V E E R F T A H I A R V R D V E L L T G
L D F Y Q D K V Q P V S E I L Q L K T Y L P T F E T T I

Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human ENPP3 at 2 μg/mL can bind anti-ENPP3 recombinant antibody, the EC_{50} is ≤ 2.868 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
Endotoxin Level	<1 EU/μg, determined by LAL method.

Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	ENPP3, a hydrolase, plays a pivotal role in metabolizing extracellular nucleotides, encompassing ATP, GTP, UTP, and CTP. This enzymatic activity is instrumental in modulating immune responses, particularly in the regulation of mast cell and basophil reactions during inflammation and chronic allergic phases. ENPP3 achieves this by eliminating extracellular ATP, a signaling molecule that activates basophils and mast cells, subsequently triggering the release of inflammatory cytokines. Furthermore, within the small intestine's lumen, ENPP3 metabolizes extracellular ATP, effectively preventing ATP-induced apoptosis in intestinal plasmacytoid dendritic cells. Alongside its involvement in nucleotide metabolism, ENPP3 exhibits alkaline phosphodiesterase activity, adding to its diverse functions in cellular processes.

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