

Datasheet for ABIN7557912  
**ENPP3 Protein (AA 1-874) (His tag)**



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## Overview

Quantity:	1 mg
Target:	ENPP3
Protein Characteristics:	AA 1-874
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ENPP3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Enpp3 Protein expressed in mammalien cells.
Sequence:	MDSRLALATE EPIKKDSLKK YKILCVLLA LLVIVSLGLG LGLGLRKPEE QGSCRKKCFD SSHRGLEGCR CDSGCTGRGD CCWDFEDTCV KSTQIWTCNL FRCGENRLET ALCSCADDCL QRKDCCADYK TVCQGESPWV TEACASSQEP QCPPGFDLPP VILFSMDGFR AEYLQWSTL LPNINKLKTC GIHSKYMRAM YPTKTFPNHY TIVTGLYPES HGIIDNNMYD VHLNKNFSL SVEKSNPAWW SGQPIWLTAM YQGLKAACY WPGSDVAVNG SFPTIYRNYS NSVPYERRIT TLLQWLDLPK ADRPSFYTIY VEEPDSAGHS SGPVSAGVIK ALQSVDNAFG MLMEGLKQRN LHNCVNIIVL ADHGMDQTSC DRVEYMTDYF PKINFYMYQG PAPIRIRTRNI PQDFFTFNSE EIVRNLSRCK PDQHFKPYLT PDLPKRLHYA KNVRIDKAHL MVDRQWLAFR SKGSSNCGGG THGYNNEFKS MEAIFLAHGP SFIEKTVIP FENIEVYNLL CDLLHIEPAP NNGTHGSLNH LLKTPFYKPS HAGELSTPAD CGFTTPLPTD PLDCSCPALQ NTPGLEEQAN QRLNLSEGEV AATVKANLPF GRPRVMQKNG DHCLLYHRDY ISGYGKAMKM PMWSSYTVLK PGDTSSLPPT

## Product Details

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VPDCLRADVR VAPSESQKCS FYLADKNITH GFLYPAIKGT NESRYDALIT SNLVPMYKEF  
KKMWDYFHEV LLIKYAIERN GLNVVSGPIF DYNVDGHFDA PDEITQYVAG TDVPIPTHYF  
VVLTSCKDQT HTPDSCPGWL DVLPFIVPHR PTNIESCSEN KTEDLWVEER FQAHAARVRD  
VELLTGLDFY QEKAQPVSQI LQLKTYLPTF ETII **Sequence without tag. The proposed**

**Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

ENPP3

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### Alternative Name:

Enpp3 ([ENPP3 Products](#))

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### Background:

Ectonucleotide pyrophosphatase/phosphodiesterase family member 3 (E-NPP 3) (Phosphodiesterase I beta) (PD-Ibeta) (Phosphodiesterase I/nucleotide pyrophosphatase 3) (CD antigen CD203c) [Includes: Alkaline phosphodiesterase I (EC 3.1.4.1), Nucleotide pyrophosphatase (NPPase) (EC 3.6.1.9) (Nucleotide diphosphatase)],FUNCTION: Hydrolase that metabolizes extracellular nucleotides, including ATP, GTP, UTP and CTP (By similarity). Limits mast cell and basophil responses during inflammation and during the chronic phases of

## Target Details

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allergic responses by eliminating the extracellular ATP that functions as signaling molecule and activates basophils and mast cells and induces the release of inflammatory cytokines (PubMed:25692702). Metabolizes extracellular ATP in the lumen of the small intestine, and thereby prevents ATP-induced apoptosis of intestinal plasmacytoid dendritic cells (PubMed:28225814). Has also alkaline phosphodiesterase activity (By similarity). {ECO:0000250|UniProtKB:O14638, ECO:0000269|PubMed:25692702, ECO:0000269|PubMed:28225814}.

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Molecular Weight: 98.7 kDa

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UniProt: [Q6DYE8](#)

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Pathways: [Regulation of Muscle Cell Differentiation, Negative Regulation of Transporter Activity](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months