

Datasheet for ABIN3092328
ENPP2 Protein (AA 36-863) (His tag)



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Overview

Quantity:	1 mg
Target:	ENPP2
Protein Characteristics:	AA 36-863
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ENPP2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	AEGWEEGPPT VLSDSPWTNI SGSCKGRCFE LQEAGPPDCR CDNLCKSYTS CCHDFDELCL KTARGWECTK DRCGEVRNEE NACHCEDCL ARGDCCTNYQ VVCKGESHWV DDCCEEIKAA ECPAGFVRPP LIIFSVDGFR ASYMKKGSKV MPNIEKLRSC GTHSPYMRPV YPTKTFPNLY TLATGLYPES HGIVGNSMYD PVFDATFHLR GREKFNHRWW GGQPLWITAT KQGVKAGTFF WSVVIHERR ILTILQWLTL PDHERPSVYA FYSEQPDFSG HKYGPFPEM TNPLREIDKI VGQLMDGLKQ LKLHRCVNI FVGDHGMEDV TCDRTEFLSN YLTNVDDITL VPGTLGRIRS KFSNNAKYDP KAIANLTCK KPDQHFKPYL KQHLPKRLHY ANNRRIEDIH LLVERRWHVA RKPLDVYKKP SGKCFQGDH GFDNKVNSMQ TVFVGYGSTF KYKTKVPPFE NIELYNVMCD LLGLKPAPNN GTHGSLNHLL RTNTFRPTMP EEVTRPNYPG IMYLQSDFDL GCTCDDKVEP KNKLDELNKR LHTKGSTEER HLLYGRPAVL YRTRYDILYH TDFESGYSEI FLMPWLTSYT VSKQAEVSSV PDHLTSCVRP DVRVSPSFSQ NCLAYKNDKQ MSYGFLFPY LSSSPEAKYD AFLVTNMVPM YPAFKRVWNY FQRVLVKKYA SERNGVNVIS GPIFDYDYDG LHDTEDEKIQ
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YVEGSSIPVP THYYSITSC LDFTQPADKC DGPLSVSSFI LPHRPDNEES CNSSSEDESKW
VEELMKMHTA RVRDIEHLTS LDFFRKTSRS YPEILTLKTY LHTYESEI

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:	<ul style="list-style-type: none">• Made in Germany - from design to production - by highly experienced protein experts.• Human ENPP2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.</p> <p>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.</p> <p>In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).</p> <p>When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.</p> <p>The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.</p> <p>The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protParam tool to determine the absorption coefficient of each protein.</p>
Purification:	<p>Two step purification of proteins expressed in baculovirus infected SF9 insect cells:</p> <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.

Product Details

Grade: Crystallography grade

Target Details

Target: ENPP2

Alternative Name: ENPP2 ([ENPP2 Products](#))

Background: Hydrolyzes lysophospholipids to produce lysophosphatidic acid (LPA) in extracellular fluids. Major substrate is lysophosphatidylcholine. Also can act on sphingosylphosphorylcholine producing sphingosine-1-phosphate, a modulator of cell motility. Can hydrolyze, in vitro, bis-pNPP, to some extent pNP-TMP, and barely ATP. Involved in several motility-related processes such as angiogenesis and neurite outgrowth. Acts as an angiogenic factor by stimulating migration of smooth muscle cells and microtubule formation. Stimulates migration of melanoma cells, probably via a pertussis toxin-sensitive G protein. May have a role in induction of parturition. Possible involvement in cell proliferation and adipose tissue development. Tumor cell motility-stimulating factor. {ECO:0000269|PubMed:11559573, ECO:0000269|PubMed:1733949, ECO:0000269|PubMed:21240271}.

Molecular Weight: 96.0 kDa Including tag.

UniProt: [Q13822](#)

Application Details

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.

Comment: In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)