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Datasheet for ABIN3136540 PNPT1 Protein (AA 46-783) (His tag)

1 Image



Overview

Quantity:	1 mg
Target:	PNPT1
Protein Characteristics:	AA 46-783
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PNPT1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB), Crystallization (Crys)

Product Details

Sequence:	AVTVDLGHRK LEISSGKLAR FADGCAVIQS GDTAVMVTAV SKTKASPSQF MPLVVDYRQK
	AAAAGRIPTN YLRREIGSSD REVLTSRVID RSIRPLFPAG YFYDTQVLCN LLAVDGINEP
	DILAVNGASV ALSLSDIPWN GPVGAVRIGM IDGECVVNPT RREMSSSTLN LVVAGAPKSQ
	IVMLEASAEN ILQQDFCHAI KVGVKYTQQI IQGIQQLVKE IGVAKRTPQK IFTPSAEIVK YTKIIAMEKL
	YAVFTDYEHD KVSRDEAVNK IRLDTEEHLK EKFPEVDQFE IIESFNIVAK EVFRSIILNE
	YKRCDGRDLT SLRNISCEVD MFKTLHGSAL FQRGQTQVLC TVTFDSLESS IKSDQIITAI
	NGVKDKNFML HYEFPPYATN ETGKVTGVNR RELGHGALAE KALCPVIPKD FPFTIRVTSE
	VLESNGSSSM ASACGGSLAL MDAGVPISSA VAGVAVGLVT KTNPEKGEIE DYRLLTDILG
	IEDYNGDMDF KIAGTNKGIT ALQADIKLPG VPIKIIMEAI QQASVAKKEI LQIMNKTISK
	PRASRKENGP VVETVKVPLS KRAKFVGPGG YHLKKLQAET GVTISQVDEE TFSIFAPTPT
	AMHEARDFIT EICRDDQEQQ LEFGAVYTAT ITEIRDTGVM VKLYPNMTAV LLHNSQLDQR
	KIKHPTALGL EVGQEIQVKY FGRDPADGRM RLSRKVLQSP ATTALKTLND RSSIVMGEPV

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	SQSSNSNP
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Pnpt1 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).
	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.
	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.
	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).
	When you order this made-to-order protein you will only pay upon receival 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.
	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.
	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.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	 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. 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.

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Product Details

Grade:

Crystallography grade

Target Details

Target:	PNPT1
Alternative Name:	Pnpt1 (PNPT1 Products)
Background:	RNA-binding protein implicated in numerous RNA metabolic processes. Catalyzes the
	phosphorolysis of single-stranded polyribonucleotides processively in the 3'-to-5' direction.
	Mitochondrial intermembrane factor with RNA-processing exoribonulease activity. Component
	of the mitochondrial degradosome (mtEXO) complex, that degrades 3' overhang double-
	stranded RNA with a 3'-to-5' directionality in an ATP-dependent manner. Required for correct
	processing and polyadenylation of mitochondrial mRNAs. Plays a role as a cytoplasmic RNA
	import factor that mediates the translocation of small RNA components, like the 5S RNA, the
	RNA subunit of ribonuclease P and the mitochondrial RNA-processing (MRP) RNA, into the
	mitochondrial matrix. Plays a role in mitochondrial morphogenesis and respiration, regulates
	the expression of the electron transport chain (ETC) components at the mRNA and protein
	levels. In the cytoplasm, shows a 3'-to-5' exoribonuclease mediating mRNA degradation activity
	degrades c-myc mRNA upon treatment with IFNB1/IFN-beta, resulting in a growth arrest in
	melanoma cells. Regulates the stability of specific mature miRNAs in melanoma cells,
	specifically and selectively degrades miR-221, preferentially. Plays also a role in RNA cell
	surveillance by cleaning up oxidized RNAs. Binds to the RNA subunit of ribonuclease P, MRP
	RNA and miR-221 microRNA. {ECO:0000269 PubMed:20691904}.
Molecular Weight:	81.8 kDa Including tag.
UniProt:	Q8K1R3
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 gurantee
	though.
Comment:	Protein has not been tested for activity yet. 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

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

Images



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process