Datasheet for ABIN3136674

PAPPA Protein (AA 81-1624) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	PAPPA
Protein Characteristics:	AA 81-1624
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PAPPA protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	ARGAEEPSPP SRALYFSGRG EQLRLRADLE LPRDAFTLQV WLRAEGGQKS PAVITGLYDK CSYTSRDRGW VMGIHTTSDQ GNRDPRYFFS LKTDRARKVT TIDAHRSYLP GQWVHLAATY DGRLMKLYMN GAQVATSAEQ VGGIFSPLTQ KCKVLMLGGS ALNHNFRGHI EHFSLWKVAR TQREIVSDME TRGLHTPLPQ LLLQENWDNV KRTWSPMKDG NSPQVEFSNA HGFLLDTNLE PPLCGQTLCD NTEVISSYNQ LPSFRQPKVV RYRVVNIYDD HHENPTVSWQ QIDFQHQQLA EAFQHYNISW ELEVLNINSS SLRHRLILAN CDISKIGDEK CDPECNHTLT GHDGGDCRQL RYPAFMKKQQ NGVCDMDCNY ERFNFDGGEC CDPDITDVTK TCFDPDSPHR AYLDVNELKN ILRLDGSTHL NIFFANSSEE ELAGVATWPW DKEALMHLGG IVLNPSFYGI PGHTHTMIHE IGHSLGLYHI FRGISEIQSC SDPCMETEPS FETGDLCNDT NPAPKHKFCG DPGPGNDTCG FHGFFNTPYN NFMSYADDDC TDSFTPNQVS RMHCYLDLVY QSWQPSRKPA PVALAPQVVG HTMDSVMLEW FPPIDGHFFE RELGSACDLC LEGRILVQYA FNASSPMPCG PSGHWSPREA EGHPDVEQPC KSSVRTWSPN SAVNPHTVPP ACPEPQGCYL ELEFRYPLVP ESLTIWVTFV

SSDWDSSGAV NDIKLLTISG KNISLGPQNV FCDIPLTIRL RDVGEEVYGI QIYTLDEHLE IDAAMLTSTV DSPLCLQCKP LQYKVLRDPP LLEDVASLLH LNRRFMDTDL KLGSVYQYRI ITISGNEESE PSPAAIYTHG SGYCGDGVIQ KDQGEECDDM NKVNGDGCSL FCKQEVSFNC IDEPSRCYFH DGDGMCEEFE QKTSIKDCGV YTPQGFLDQW ASNASVSHQD QQCPGWVVIG QPAASQVCRT KVIDLSEGIS QHAWYPCTIT YPYYHLPQTT FWLQTYFSQP MVAAAVIIHL VTDGTYYGDQ KQETISVQLL DTKDQSHDLG LHVLSCRNNP LIIPVVHDLS QPFYHSQAVH VSFSSPLVAI SGVALRSFDN FDPVTLSSCQ RGETYSPAEQ SCVHFACQAA DCPELAVGNA SLNCSSNHHY HGAQCTVSCQ TGYVLQIQRD DELIKSQVGP SITVTCTEGK WNKQVACEPV DCGIPDHHHV YAASFSCPEG TTFGRRCSFQ CRHPAQLKGN NSFLTCMEDG LWSFPEALCE LMCLAPPPVP NADLQTARCR ENKHKVGSFC KYKCKPGYHV PGSSRKSKKR AFKTQCTQDG SWQEGTCVPV TCDPPPPKFH GLYQCTNGFQ FNSECRIKCE DSDASQGRGS NIIHCRKDGT WSGSFHVCRE MQGQCSAPNQ LNSNLKLQCP DGYAIGSECA ISCLDHNSES IILPVNLTVR DIPHWMNPTR VQRIVCTAGL QWYPHPALIH CVKGCEPFMG DNYCDAINNR AFCNYDGGDC CTSTVKTKKV TPFPMSCDLQ NDCACRDPEA QEHNRKDLRG YSHG

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 Pappa 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.

Product Details

	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: 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.
Grade:	Crystallography grade

Target Details

Target:	PAPPA
Alternative Name:	Pappa (PAPPA Products)
Background:	Metalloproteinase which specifically cleaves IGFBP-4 and IGFBP-5, resulting in release of bound IGF. Cleavage of IGFBP-4 is dramatically enhanced by the presence of IGF, whereas cleavage of IGFBP-5 is slightly inhibited by the presence of IGF. Isoform 2 cleaves IGFBP-4 very slowly compared to PAPP-A, but its ability to cleave IGFBP-5 is unaffected. {ECO:0000269|PubMed:11985604}.
Molecular Weight:	173.5 kDa Including tag.
UniProt:	Q8R4K8

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

Application Details

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

Images

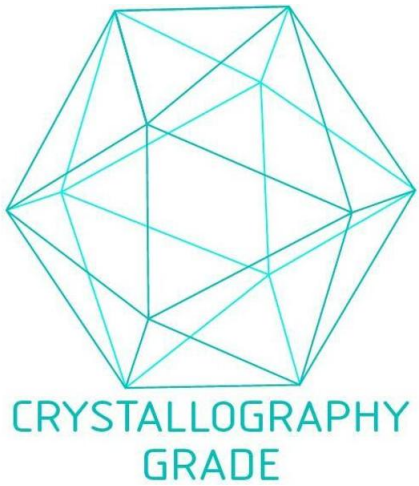

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process