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KPNA1 Protein (AA 1-538) (His tag)



Image



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Overview

Quantity:	1 mg
Target:	KPNA1
Protein Characteristics:	AA 1-538
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KPNA1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

MSTPGKENFR LKSYKNKSLN PDEMRRRREE EGLQLRKQKR EEQLFKRRNV ATAEEETEEE
VMSDGGFHEA QINNMEMAPG GVITSDMTDM IFSNSPEQQL SATQKFRKLL SKEPNPPIDE
VINTPGVVAR FVEFLKRKEN CTLQFESAWV LTNIASGNSL QTRNVIQAGA VPIFIELLSS
EFEDVQEQAV WALGNIAGDS TMCRDYVLNC NILPPLLQLF SKQNRLTMTR NAVWALSNLC
RGKSPPPEFA KVSPCLNVLS WLLFVSDTDV LADACWALSY LSDGPNDKIQ AVIDAGVCRR
LVELLMHNDY KVVSPALRAV GNIVTGDDIQ TQVILNCSAL QSLLHLLSSP KESIKKEACW
TISNITAGNR AQIQTVIDAN MFPALISILQ TAEFRTRKEA AWAITNATSG GSAEQIKYLV
ELGCIKPLCD LLTVMDAKIV QVALNGLENI LRLGEQEAKR NGSGINPYCA LIEEAYGLDK
IEFLQSHENQ EIYQKAFDLI EHYFGTEDED SSIAPQVDLS QQQYIFQQCE APMEGFQL

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 Kpna1 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:

- 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:	KPNA1
Alternative Name:	Kpna1 (KPNA1 Products)
Background:	Functions in nuclear protein import as an adapter protein for nuclear receptor KPNB1. Binds
	specifically and directly to substrates containing either a simple or bipartite NLS motif. Docking
	of the importin/substrate complex to the nuclear pore complex (NPC) is mediated by KPNB1
	through binding to nucleoporin FxFG repeats and the complex is subsequently translocated
	through the pore by an energy requiring, Ran-dependent mechanism. At the nucleoplasmic side
	of the NPC, Ran binds to importin-beta and the three components separate and importin-alpha
	and -beta are re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases
	Ran from importin. The directionality of nuclear import is thought to be conferred by an
	asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and
	nucleus.
Molecular Weight:	61.1 kDa Including tag.
UniProt:	Q60960
Pathways:	M Phase, Protein targeting to Nucleus
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
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

Handling

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

Images

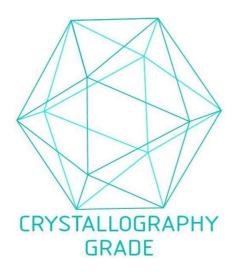


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process