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Datasheet for ABIN3137162 IPO7 Protein (AA 1-1038) (His tag)

1 Image



Overview

Quantity:	1 mg
Target:	IP07
Protein Characteristics:	AA 1-1038
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IP07 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MDPNTIIEAL RGTMDPALRE AAERQLNEAH KSLNFVSTLL QITMSEQLDL PVRQAGVIYL
	KNMITQYWPD REATPGDIAP YTIPEEDRHC IRENIVEAII HSPELIRVQL TTCIHHIIKH
	DYPSRWTAIV DKIGFYLQSD NSACWLGILL CLYQLVKNYE YKKPEERSPL VAAMQHFLPV
	LKDRFIQLLS DQSDQSVLIQ KQIFKIFYAL VQYTLPLELI NQQNLTEWVE ILKTVVNRDV
	PNETLQVEED DRPELPWWKC KKWALHILAR LFERYGSPGN VSKEYNEFAE VFLKAFAVGV
	QQVLLKVLYQ YKEKQYMAPR VLQQTLNYIN QGVSHALTWK NLKPHIQGII QDVIFPLMCY
	TDADEELWQE DPYEYIRMKF DVFEDFISPT TAAQTLLFTA CSKRKEVLQK TMGFCYQILT
	EPNADPRKKD GALHMIGSLA EILLKKKIYK DQMEYMLQNH VFPLFSSELG YMRARACWVL
	HYFCEVKFKS DQNLQTALEL TRRCLIDDRE MPVKVEAAIA LQVLISNQEK AKEYITPFIR
	PVMQALLHII RETENDDLTN VIQKMICEYS EEVTPIAVEM TQHLAMTFNQ VIQTGPDEEG
	SDDKAVTAMG ILNTIDTLLS VVEDHKEITQ QLEGICLQVI GTVLQQHVLE FYEEIFSLAH
	SLTCQQVSPQ MWQLLPLVFE VFQQDGFDYF TDMMPLLHNY VTVDTDTLLS DTKYLEMIYS

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	MCKKVLTGVA GEDAECHAAK LLEVIILQCK GRGIDQCIPL FVEAALERLT REVKTSELRT
	MCLQVAIAAL YYNPHLLLNT LENLRFPNNV EPVTNHFITQ WLNDVDCFLG LHDRKMCVLG
	LCALIDMEQI PQVLNQVSGQ ILPAFILLFN GLKRAYACHA EHENDSDDDE DAEDDDETEE
	LGSDEDDIDE DGQEYLEILA KQAGEDGDDE DWEEDDAEET ALEGYSTIID DEDNPVDEYQ
	IFKAIFQTIQ NRNPVWYQAL THGLNEEQRK QLQDIATLAD QRRAAHESKM IEKHGGYKFS
	APVVPSSFNF GGPAPGMN
	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 Ipo7 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. Eluste fractions are analyzed by SDS-PACE and
	Western blot.

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Product Details	
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:	IP07
Alternative Name:	Ipo7 (IPO7 Products)
Background:	Functions in nuclear protein import, either by acting as autonomous nuclear transport receptor or as an adapter-like protein in association with the importin-beta subunit KPNB1. Acting autonomously is thought to serve itself as receptor for nuclear localization signals (NLS) and to promote translocation of import substrates through the nuclear pore complex (NPC) by an energy requiring, Ran-dependent mechanism. At the nucleoplasmic side of the NPC, Ran binds to importin, the importin/substrate complex dissociates and importin is re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases Ran. Mediates autonomously the nuclear import of ribosomal proteins RPL23A, RPS7 and RPL5. Binds to a beta-like import receptor binding (BIB) domain of RPL23A. In association with KPNB1 mediates the nuclear import of H1 histone and the Ran-binding site of IPO7 is not required but synergizes with that of KPNB1 in importin/substrate complex dissociation (By similarity). In vitro, mediates nuclear import of H2A, H2B, H3 and H4 histones. {EC0:0000250, EC0:0000269 PubMed:11493596}.
Molecular Weight:	120.4 kDa Including tag.
UniProt:	Q9EPL8
Pathways:	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.
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Application Details

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