

Datasheet for ABIN3135920

Importin 8 Protein (IPO8) (AA 1-1010) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	Importin 8 (IPO8)
Protein Characteristics:	AA 1-1010
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Importin 8 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MDLNRIIQAL KGTIDPKLRI AAETELNQSY KIINFAPSL RIIVSDHVEF PVRQAAAIYL KNMVTQYWPD REPPPGEVIF PFNIHENDRQ QIRDNIVEGI IRSPDLVRVQ LTMCLRVIIR HDFPGHWPAV VDKIDYYLQS PNSGSWLGLS LCLYQLVKTY EYKKAEREP LLAAMQIFLP RIQQQILQLL PDASHYSVLL QKQILKIFYA LVQYALPLQL VNHQTM TTTWM EIFRTIIDRT VPPETLQIDE DDRPELVWWK CKKWALHIVA RLFERYGSPG NVTKEYFEFS EFFLKTYAVG IQQVLLKILD QYRQKEYIAP RVLQQAFNYL NQGWWHAVTW KQMKPHIQNI SEDVIFSVMC YKDEDEELWQ EDPYEYIRMK FDIFEDYASP TTAAQTLLYT AAKKRKEVLP KMMAFICYIL TDPNFDPRKK DGALHVIGSL AEILLKKSFL KDQIELFLQN HVFPLLMSNL GYLRARSCWV LHAFSSLKFH NELNLRNAVE LAKKSLIEDE EMPVKVEAAL ALQSLISNQA QAKEHMKPYV RFIMQELLHI VRETENDDVT NVIQKLICEY SQDVASIAVD TTQHLAEIFG KVLQSDEYEE IEDKTMAMG ILHTIDTILT VVEDHPEIIQ QLENICLR II DLVLQKHVIE FYEEILSLAY NLTCHTISPO MWQLLGILYE VFQQDCFEYF TDMMPLLNHY VTVDTNALLS NPKHLEVLFT MCRKVLGCEA
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GEDAECYAAK LLEVILQCK GRGIDQCIPL FIQLVLERLT RGVKTSELRT MCLQVAIAAL
YYSPELLFHT LEQVQLPHNP GPVTSQFINQ WMNDTDYFLG HHDRKMCIIG LSVLLELQNR
PPAVDAVAAQ ILPSILFLFL GLKQVCATRQ TVNRENHNSKA EKVDIEENEE ISSEEEEEETS
VSAQAMQSQI GRSEEEEDDDD WDEEVLEETA LEGFSTPLDL DNSVDEYQFF TQALLTVQNR
DAAWYQLLVA PLSEDQKRKL QEVYTLAEHR RTLAAGQFHI

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 Ipo8 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 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.

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.

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:	Importin 8 (IPO8)
Alternative Name:	Ipo8 (IPO8 Products)
Background:	<p>Seems to function 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. 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. In vitro mediates the nuclear import of SRP19 (By similarity). {ECO:0000250}.</p>
Molecular Weight:	118.0 kDa Including tag.
UniProt:	Q7TMY7

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:	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
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