Datasheet for ABIN3094271

NUP153 Protein (AA 2-1475) (His tag)

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1 Image

Overview

Quantity:	1 mg
Target:	NUP153
Protein Characteristics:	AA 2-1475
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NUP153 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	ASGAGGVGGG GGGKIRTRRC HQGPIKPYQQ GRQQHQGILS RVTESVKNIV PGWLQRYFNK NEDVCSCSTD TSEVPRWPEN KEDHLVYADE ESSNITDGRI TPEPAVSNTE EPSTTSTASN YPDVLTRPSL HRSHLNFSML ESPALHCQPS TSSAFPIGSS GFSLVKEIKD STSQHDDDNI STTSGFSSRA SDKDITVSKN TSLPPLWSPE AERSHSLSQH TATSSKKPAF NLSAFGTLSP SLGNSSILKT SQLGDSPFYP GKTTYGGAAA AVRQSKLRNT PYQAPVRRQM KAKQLSAQSY GVTSSTARRI LQSLEKMSSP LADAKRIPSI VSSPLNSPLD RSGIDITDFQ AKREKVDSQY PPVQRLMTPK PVSIATNRSV YFKPSLTPSG EFRKTNQRID NKCSTGYEKN MTPGQNREQR ESGFSYPNFS LPAANGLSSG VGGGGGKMRR ERTRFVASKP LEEEEMEVPV LPKISLPITS SSLPTFNFSS PEITTSSPSP INSSQALTNK VQMTSPSSTG SPMFKFSSPI VKSTEANVLP PSSIGFTFSV PVAKTAELSG SSSTLEPIIS SSAHHVTTVN STNCKKTPPE DCEGPFRPAE ILKEGSVLDI LKSPGFASPK IDSVAAQPTA TSPVVYTRPA ISSFSSSGIG FGESLKAGSS WQCDTCLLQN KVTDNKCIAC QAAKLSPRDT AKQTGIETPN KSGKTTLSAS GTGFGDKFKP

VIGTWDCDTC LVQNKPEAIK CVACETPKPG TCVKRALTLT VVSESAETMT ASSSSCTVTT GTLGFGDKFK RPIGSWECSV CCVSNNAEDN KCVSCMSEKP GSSVPASSSS TVPVSLPSGG SLGLEKFKKP EGSWDCELCL VQNKADSTKC LACESAKPGT KSGFKGFDTS SSSSNSAASS SFKFGVSSSS SGPSQTLTST GNFKFGDQGG FKIGVSSDSG SINPMSEGFK FSKPIGDFKF GVSSESKPEE VKKDSKNDNF KFGLSSGLSN PVSLTPFQFG VSNLGQEEKK EELPKSSSAG FSFGTGVINS TPAPANTIVT SENKSSFNLG TIETKSASVA PFTCKTSEAK KEEMPATKGG FSFGNVEPAS LPSASVFVLG RTEEKQQEPV TSTSLVFGKK ADNEEPKCQP VFSFGNSEQT KDENSSKSTF SFSMTKPSEK ESEQPAKATF AFGAQTSTTA DQGAAKPVFS FLNNSSSSSS TPATSAGGGI FGSSTSSSNP PVATFVFGQS SNPVSSSAFG NTAESSTSQS LLFSQDSKLA TTSSTGTAVT PFVFGPGASS NNTTTSGFGF GATTTSSSAG SSFVFGTGPS APSASPAFGA NQTPTFGQSQ GASQPNPPGF GSISSSTALF PTGSQPAPPT FGTVSSSSQP PVFGQQPSQS AFGSGTTPNS SSAFQFGSST TNFNFTNNSP SGVFTFGANS STPAASAQPS GSGGFPFNQS PAAFTVGSNG KNVFSSSGTS FSGRKIKTAV RRRK

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.
- Human NUP153 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

Product Details

	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:	NUP153
Alternative Name:	NUP153 (NUP153 Products)
Background:	Component of the nuclear pore complex (NPC), a complex required for the trafficking across the nuclear envelope. Functions as a scaffolding element in the nuclear phase of the NPC essential for normal nucleocytoplasmic transport of proteins and mRNAs. Involved in the quality control and retention of unspliced mRNAs in the nucleus, in association with TPR, regulates the nuclear export of unspliced mRNA species bearing constitutive transport element (CTE) in a NXF1- and KHDRBS1-independent manner. Mediates TPR anchoring to the nuclear membrane at NPC. The repeat-containing domain may be involved in anchoring other components of the NPC to the pore membrane. Possible DNA-binding subunit of the nuclear pore complex (NPC). {ECO:0000269|PubMed:12802065, ECO:0000269|PubMed:15229283, ECO:0000269|PubMed:22253824}.
Molecular Weight:	154.8 kDa Including tag.
UniProt:	P49790
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

Application Details

	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	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