

Datasheet for ABIN3096383
XPO1 Protein (AA 1-1071) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	XPO1
Protein Characteristics:	AA 1-1071
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This XPO1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MPAIMTMLAD HAARQLLDFS QKLDINLLDN VVNCLYHGEG AQRMAQEV L THLKEHPDAW TRVDTILEFS QNMNTKYYGL QILENVIKTR WKILPRNQCE GIKKYVVGLI IKTSSDPTCV EKEKVYIGKL NMILVQILKQ EWPKHWPTFI SDIVGASRTS ESLCQNNMVI LKLLSEEVFD FSSGQITQVK SKHLKDSMCN EFSQIFQLCQ FVMENSQNAP LVHATLETLL RFLNWIPLGY IFETKLITL IYKFLNVPMF RNVSLKCLTE IAGVSVSQYE EQFVTLFTLT MMQLKQMLPL NTNIRLAYS N GKDDEQNFIQ NLSLFLCTFL KEHDQLIEKR LNLRETLMEA LHMYLLVSEV EETEIFKICL EYWNHLAAEL YRESPFSTA SPLLSGSQHF DVPPRRQLYL PMLFKVRLLM VSRMAKPEEV LVVENDQGEV VREFMKD TDS INLYKNMRET LVYLTHLDYV DTERIMTEKL HNQVNGTEWS WKNLNTLCWA IGSISGAMHE EDEKRFLVTV IKDLLGLCEQ KRGKDNKAI I ASNIMYIVGQ YPRFLRAHWK FLKTVVNKLF EFMHETHDGV QDMACDTFIK IAQKCRHFV QVQVGEVMPF IDEILNNINT IICDLQPQQV HTFYEA VGYM IGAQTDQTVQ EHLIEKYMLL

PNQVWDSIIQ QATKNVDILK DPETVKQLGS ILKTNVRACK AVGHPPFVIQL GRIYLDMLNV
YKCLSENISA AIQANGEMVT KQPLIRSMRT VKRETLKLIS GWVSRSDNPQ MVAENFVPPL
LDAVLIDYQR NVPAAREPEV LSTMAIIVNK LGGHITAEIP QIFDAVFECT LNMINKDFEE
YPEHRTNFFL LLQAVNSHCF PAFLAIPPTQ FKLVLDSIHW AFKHTMRNVA DTGLQILFTL
LQNVAQEEAA AQSFYQTYFC DILQHIFSVV TDTSHTAGLT MHASILAYMF NLVEEGKIST
SLNPGNPVNN QIFLQEYVAN LLKSAFPHLQ DAQVKLFVTG LFSLNQDIPA FKEHLRDFLV
QIKEFAGEDT SDFLEEREI ALRQADEEKH KRQMSVPGIF NPHEIPEEMC D

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 try to ensure that you receive soluble 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.

Product Details

- The protein's absorbance will be measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification: One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: XP01

Alternative Name: XP01 ([XP01 Products](#))

Background: Exportin-1 (Exp1) (Chromosome region maintenance 1 protein homolog),FUNCTION: Mediates the nuclear export of cellular proteins (cargos) bearing a leucine-rich nuclear export signal (NES) and of RNAs. In the nucleus, in association with RANBP3, binds cooperatively to the NES on its target protein and to the GTPase RAN in its active GTP-bound form (Ran-GTP). Docking of this complex to the nuclear pore complex (NPC) is mediated through binding to nucleoporins. Upon transit of a nuclear export complex into the cytoplasm, disassembling of the complex and hydrolysis of Ran-GTP to Ran-GDP (induced by RANBP1 and RANGAP1, respectively) cause release of the cargo from the export receptor. The directionality of nuclear export is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus. Involved in U3 snoRNA transport from Cajal bodies to nucleoli. Binds to late precursor U3 snoRNA bearing a TMG cap.

{ECO:0000269|PubMed:15574332, ECO:0000269|PubMed:20921223,

ECO:0000269|PubMed:9311922, ECO:0000269|PubMed:9323133}., FUNCTION: (Microbial infection) Mediates the export of unspliced or incompletely spliced RNAs out of the nucleus from different viruses including HIV-1, HTLV-1 and influenza A. Interacts with, and mediates the nuclear export of HIV-1 Rev and HTLV-1 Rex proteins. Involved in HTLV-1 Rex multimerization.

{ECO:0000269|PubMed:14612415, ECO:0000269|PubMed:9837918}.

Molecular Weight: 123.4 kDa

UniProt: [O14980](#)

Pathways: [M Phase](#)

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: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months
