Datasheet for ABIN3096357

Exportin 2 Protein (AA 1-971) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	Exportin 2 (CSE1L)
Protein Characteristics:	AA 1-971
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Exportin 2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MELSDANLQT LTEYLKKTLD PDPAIRRPAE KFLESVEGNQ NYPLLLLTLL EKSQDNVIKV CASVTFKNYI KRNWRIVEDE PNKICEADRV AIKANIVHLM LSSPEQIQKQ LSDAISIIGR EDFPQKWPDL LTEMVNRFQS GDFHVINGVL RTAHSLFKRY RHEFKSNELW TEIKLVLDAF ALPLTNLFKA TIELCSTHAN DASALRILFS SLILISKLFY SLNFQDLPEF FEDNMETWMN NFHTLLTLDN KLLQTDDEEE AGLLELLKSQ ICDNAALYAQ KYDEEFQRYL PRFVTAIWNL LVTTGQEVKY DLLVSNAIQF LASVCERPHY KNLFEDQNTL TSICEKVIVP NMEFRAADEE AFEDNSEEYI RRDLEGSDID TRRRAACDLV RGLCKFFEGP VTGIFSGYVN SMLQEYAKNP SVNWKHKDAA IYLVTSLASK AQTQKHGITQ ANELVNLTEF FVNHILPDLK SANVNEFPVL KADGIKYIMI FRNQVPKEHL LVSIPLLINH LQAESIVVHT YAAHALERLF TMRGPNNATL FTAAEIAPFV EILLTNLFKA LTLPGSSENE YIMKAIMRSF SLLQEAIIPY IPTLITQLTQ KLLAVSKNPS KPHFNHYMFE AICLSIRITC KANPAAVVNF EEALFLVFTE ILQNDVQEFI PYVFQVMSLL

LETHKNDIPS SYMALFPHLL QPVLWERTGN IPALVRLLQA FLERGSNTIA SAAADKIPGL LGVFQKLIAS KANDHQGFYL LNSIIEHMPP ESVDQYRKQI FILLFQRLQN SKTTKFIKSF LVFINLYCIK YGALALQEIF DGIQPKMFGM VLEKIIIPEI QKVSGNVEKK ICAVGITKLL TECPPMMDTE YTKLWTPLLQ SLIGLFELPE DDTIPDEEHF IDIEDTPGYQ TAFSQLAFAG KKEHDPVGQM VNNPKIHLAQ SLHKLSTACP GRVPSMVSTS LNAEALQYLQ GYLQAASVTL L

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.
- 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.

Product Details

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:	Exportin 2 (CSE1L)
Alternative Name:	CSE1L (CSE1L Products)
Background:	Exportin-2 (Exp2) (Cellular apoptosis susceptibility protein) (Chromosome segregation 1-like protein) (Importin-alpha re-exporter),FUNCTION: Export receptor for importin-alpha. Mediates importin-alpha re-export from the nucleus to the cytoplasm after import substrates (cargos) have been released into the nucleoplasm. In the nucleus binds cooperatively to importin-alpha and to the GTPase Ran in its active GTP-bound form. Docking of this trimeric 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 importin-alpha from the export receptor. CSE1L/XPO2 then return to the nuclear compartment and mediate another round of transport. 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. {ECO:0000269|PubMed:9323134}.
Molecular Weight:	110.4 kDa
UniProt:	P55060
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 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

Application Details

	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