Datasheet for ABIN3094942

Importin 9 Protein (IPO9) (AA 1-729) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	Importin 9 (IPO9)
Protein Characteristics:	AA 1-729
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Importin 9 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MSGQPPPPPP QQQQQQQQLS PPPPAALAPV SGVVLPAPPA VSAGSSPAGS PGGGAGGEGL GAAAAALLLH PPPPPPPATA APPPPPPPPP PPASAAAPAS GPPAPPGLAA GPGPAGGAPT PALVAGSSAA APFPHGDSAL NEQEKELQRR LKRLYPAVDE QETPLPRSWS PKDKFSYIGL SQNNLRVHYK GHGKTPKDAA SVRATHPIPA ACGIYYFEVK IVSKGRDGYM GIGLSAQGVN MNRLPGWDKH SYGYHGDDGH SFCSSGTGQP YGPTFTTGDV IGCCVNLINN TCFYTKNGHS LGIAFTDLPP NLYPTVGLQT PGEVVDANFG QHPFVFDIED YMREWRTKIQ AQIDRFPIGD REGEWQTMIQ KMVSSYLVHH GYCATAEAFA RSTDQTVLEE LASIKNRQRI QKLVLAGRMG EAIETTQQLY PSLLERNPNL LFTLKVRQFI EMVNGTDSEV RCLGGRSPKS QDSYPVSPRP FSSPSMSPSH GMNIHNLASG KGSTAHFSGF ESCSNGVISN KAHQSYCHSN KHQSSNLNVP ELNSINMSRS QQVNNFTSND VDMETDHYSN GVGETSSNGF LNGSSKHDHE MEDCDTEMEV DSSQLRRQLC GGSQAAIERM IHFGRELQAM SEQLRRDCGK NTANKKMLKD AFSLLAYSDP

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WNSPVGNQLD PIQREPVCSA LNSAILETHN LPKQPPLALA MGQATQCLGL MARSGIGSCA FATVEDYLH

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.

Purification:

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

Product Details

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

Target Details

Target:	Importin 9 (IPO9)
Alternative Name:	RANBP9 (IPO9 Products)
Background:	Ran-binding protein 9 (RanBP9) (BPM-L) (BPM90) (Ran-binding protein M) (RanBPM) (RanBP7),FUNCTION: May act as scaffolding protein, and as adapter protein to couple membrane receptors to intracellular signaling pathways (Probable). Acts as a mediator of cell spreading and actin cytoskeleton rearrangement (PubMed:18710924). Core component of the CTLH E3 ubiquitin-protein ligase complex that selectively accepts ubiquitin from UBE2H and mediates ubiquitination and subsequent proteasomal degradation of the transcription factor HBP1 (PubMed:29911972). May be involved in signaling of ITGB2/LFA-1 and other integrins (PubMed:14722085). Enhances HGF-MET signaling by recruiting Sos and activating the Ras pathway (PubMed:12147692). Enhances dihydrotestosterone-induced transactivation activity of AR, as well as dexamethasone-induced transactivation activity of NR3C1, but not affect estrogen-induced transactivation (PubMed:12361945, PubMed:18222118). Stabilizes TP73 isoform Alpha, probably by inhibiting its ubiquitination, and increases its proapoptotic activity (PubMed:15558019). Inhibits the kinase activity of DYRK1A and DYRK1B. Inhibits FMR1 binding to RNA. {ECO:0000269|PubMed:12147692, ECO:0000269|PubMed:12361945, ECO:0000269|PubMed:14500717, ECO:0000269|PubMed:14722085, ECO:0000269|PubMed:15381419, ECO:0000269|PubMed:15558019, ECO:0000269|PubMed:18222118, ECO:0000269|PubMed:18710924, ECO:0000269|PubMed:29911972, ECO:0000305}.
Molecular Weight:	77.8 kDa
UniProt:	Q96S59
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.

Application Details

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