

Datasheet for ABIN3092270

Ephrin A1 Protein (EFNA1) (AA 1-1120) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	Ephrin A1 (EFNA1)
Protein Characteristics:	AA 1-1120
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Ephrin A1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MVLNSLDKMI QLQKNTANIR NICVLAHVDH GKTTLADCLI SSNGIISSRL AGKLRYMDSR</p> <p>EDEQIRGITM KSSAISLHYA TGNEEYLINL IDSPGHVDFS SEVSTAVRIC DGCIIVVDAV</p> <p>EGVCPQTQAV LRQAWLENIR PVLVINKIDR LIVELKFTPQ EAYSHLKNIL EQINALTGTL</p> <p>FTSKVLEERA ERETESQVNP NSEQGEQVYD WSTGLEDTDD SHLYFSPEQG NVVFTSAIDG</p> <p>WGFGIEHFAR IYSQKIGIKK EVLMKTLWGD YYINMKAKKI MKGDQAKGKK PLFVQLILEN</p> <p>IWSLYDAVLK KDKDKIDKIV TSLGLKIGAR EARHSDPKVQ INAICSQWLP ISHAVLAMVC</p> <p>QKLPSPLDIT AERVERLMCT GSQTFDSFPP ETQALKA AFM KCGSEDTAPV IIFVSKMFAV</p> <p>DAKALPQNKP RPLTQEEIAQ RRERARQRHA EKLAQAAGQA PLEPTQDGSA IETCPKGEEP</p> <p>RGDEQQVESM TPKPVLQEEN NQESFIAFAR VFSGVARRGK KIFVLGPKYS PLEFLRRVPL</p> <p>GFSAPPDGLP QVPHMAYCAL ENLYLLMGRE LEYLEEVPPG NVLGIGGLQD FVLKSATLCS</p> <p>LPSCPPFIPL NFEATPIVRV AVEPKHPSEM PQLVKGMKLL NQADPCVQIL IQETGEHVLV</p>

TAGEVHLQRC LDDLKERFAK IHISVSEPII PFRETITKPP KVDMVNEEIG KQKQVAVIHQ
MKEDQSKIPE GIQVDSGLI TITTPNKLAT LSVRAMPLPE EVTQILEENS DLIRSMEQLT
SSLNEGENTH MIHQKTQEKI WEFKGGLEQH LTGRRWRNIV DQIWSFGPRK CGPNILVNKS
EDFQNSVWTG PADKASKEAS RYRDLGNSIV SGFQLATLSG PMCEEPLMGV CFVLEKWDLS
KFEEQGASDL AKEGQEEENET CSGGNENQEL QDGCSEAFEK RTSQKGESPL TDCYGPFGSQ
LIATMKEACR YALQVKPQRL MAAMYTCDIM ATGDVLGRVY AVLSKREGRV LQEEMKEGTD
MFIKAVLPV AESFGFADEI RKRTSGLASP QLVFSHWEII PSDPFWVPTT EEEYLHFGEK
ADSENQARKY MNAVRKRKGL YVEEKIVEHA EKQRTLSKNK

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:

Product Details

- 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®).

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

Grade: custom-made

Target Details

Target: Ephrin A1 (EFNA1)

Alternative Name: EFL1 ([EFNA1 Products](#))

Background: Elongation factor-like GTPase 1 (Elongation factor Tu GTP-binding domain-containing protein 1) (Elongation factor-like 1) (Protein FAM42A),FUNCTION: Involved in the biogenesis of the 60S ribosomal subunit and translational activation of ribosomes. Together with SBDS, triggers the GTP-dependent release of EIF6 from 60S pre-ribosomes in the cytoplasm, thereby activating ribosomes for translation competence by allowing 80S ribosome assembly and facilitating EIF6 recycling to the nucleus, where it is required for 60S rRNA processing and nuclear export. Has low intrinsic GTPase activity. GTPase activity is increased by contact with 60S ribosome subunits. {ECO:0000269|PubMed:21536732}.

Molecular Weight: 125.4 kDa

UniProt: [Q7Z2Z2](#)

Pathways: [RTK Signaling](#)

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.

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Application Details

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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