Datasheet for ABIN3104670

Ectodysplasin A Protein (EDA) (AA 1-391) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	Ectodysplasin A (EDA)
Protein Characteristics:	AA 1-391
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Ectodysplasin A protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MGYPEVERRE LLPAAAPRER GSQGCGCGGA PARAGEGNSC LLFLGFFGLS LALHLLTLCC YLELRSELRR ERGAESRLGG SGTPGTSGTL SSLGGLDPDS PITSHLGQPS PKQQPLEPGE AALHSDSQDG HQMALLNFFF PDEKPYSEEE SRRVRRNKRS KSNEGADGPV KNKKKGKKAG PPGPNGPPGP PGPPGPQGPP GIPGIPGIPG TTVMGPPGPP GPPGPQGPPG LQGPSGAADK AGTRENQPAV VHLQGQGSAI QVKNDLSGGV LNDWSRITMN PKVFKLHPRS GELEVLVDGT YFIYSQVEVY YINFTDFASY EVVVDEKPFL QCTRSIETGK TNYNTCYTAG VCLLKARQKI AVKMVHADIS INMSKHTTFF GAIRLGEAPA S **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:

Product Details

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

Target Details

Target:	Ectodysplasin A (EDA)

Target Details

Alternative Name:	EDA (EDA Products)
Background:	Ectodysplasin-A (Ectodermal dysplasia protein) (EDA protein) [Cleaved into: Ectodysplasin-A, membrane form, Ectodysplasin-A, secreted form],FUNCTION: Cytokine which is involved in epithelial-mesenchymal signaling during morphogenesis of ectodermal organs. Functions as a ligand activating the DEATH-domain containing receptors EDAR and EDA2R (PubMed:8696334, PubMed:11039935, PubMed:27144394, PubMed:34582123). May also play a role in cell adhesion (By similarity). {ECO:0000250|UniProtKB:O54693, ECO:0000269|PubMed:11039935, ECO:0000269|PubMed:27144394, ECO:0000269|PubMed:34582123, ECO:0000269|PubMed:8696334}., FUNCTION: [Isoform 1]: Binds only to the receptor EDAR, while isoform 3 binds exclusively to the receptor EDA2R. {ECO:0000269|PubMed:11039935, ECO:0000269|PubMed:27144394}., FUNCTION: [Isoform 3]: Binds only to the receptor EDA2R. {ECO:0000269|PubMed:11039935, ECO:0000269|PubMed:27144394}.
Molecular Weight:	41.3 kDa
UniProt:	Q92838
Pathways:	Tube Formation

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