Datasheet for ABIN3135269

Scinderin Protein (SCIN) (AA 1-715) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	Scinderin (SCIN)
Protein Characteristics:	AA 1-715
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Scinderin protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MAQELQHPEF ARAGQQAGLQ VWRVEKLELV PVPQGAYGDF YVGDAYLVLH TTKSSRGFSY RLHFWLGKEC SQDESTAAAI FTVQMDDYLG GKPVQSRELQ GYESTDFVGY FKGGLKYKAG GVASGLNHVL TNDLTAKRLL HVKGRRVVRA TEVPLSWESF NKGDCFIIDL GTEIYQWCGS SCNKYERLKA SQVAIGIRDN ERKGRSQLIV VEEGSEPSEL MKVLGRKPEL PDGDNDDDVV ADISNRKMAK LYMVSDASGS MKVTLVAEEN PFSMGMLLSE ECFILDHGAA KQIFVWKGKN ANPQERKTAM KTAEEFLQKM KYSTNTQIQV LPEGGETPIF KQFFKDWKDK DQSDGFGKVY ITEKVAQIKQ IPFDASKLHS SPQMAAQHNM VDDGSGGVEI WRVENSGRVQ IDPSSYGEFY GGDCYIILYT YPRGQIIYTW QGANATRDEL TMSAFLTVQL DRSLGGQAVQ VRVSQGKEPA HLLSLFKDKP LIIYKNGTSK KEGQAPAPPT RLFQVRRNLA SITRIVEVDV DANSLNSNDT FVLKLPRNNG FIWIGKGASQ EEEKGAEYVA DVLKCKASRI QEGKEPEEFW NSLGGRGDYQ TSPLLETRAE DHPPRLYGCS NKTGRFIIEE VPGEFTQDDL AEDDVMLLDA WEQIFIWIGK

	DANEVEKKES VKSAKMYLET DPSGRDKRTP IVIIKQGHEP PTFTGWFLGW DSSRW **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:	Scinderin (SCIN)
Alternative Name:	Scin (SCIN Products)
Background:	Scinderin (Adseverin) (Gelsolin-like protein),FUNCTION: Ca(2+)-dependent actin filament-severing protein that has a regulatory function in exocytosis by affecting the organization of the microfilament network underneath the plasma membrane (PubMed:9671468). Severing activity is inhibited by phosphatidylinositol 4,5-bis-phosphate (PIP2) (By similarity). In vitro, also has barbed end capping and nucleating activities in the presence of Ca(2+) (PubMed:9671468). Required for megakaryocyte differentiation, maturation, polyploidization and apoptosis with the release of platelet-like particles (By similarity). Plays a role in osteoclastogenesis (OCG) and actin cytoskeletal organization in osteoclasts (PubMed:25275604, PubMed:25681458). Regulates chondrocyte proliferation and differentiation (By similarity). Inhibits cell proliferation and tumorigenesis. Signaling is mediated by MAPK, p38 and JNK pathways (By similarity). {ECO:0000250|UniProtKB:Q28046, ECO:0000250|UniProtKB:Q5ZIV9, ECO:0000250|UniProtKB:Q9Y6U3, ECO:0000269|PubMed:25275604, ECO:0000269|PubMed:25681458, ECO:0000269|PubMed:9671468}., FUNCTION: [Isoform 2]: Fails to nucleate actin polymerization, although it severs and caps actin filaments in a Ca(2+)-dependent manner. {ECO:0000269|PubMed:9671468}.
Molecular Weight:	80.3 kDa
UniProt:	Q60604
Pathways:	Regulation of Actin Filament Polymerization

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