

Datasheet for ABIN3095647

SSH2 Protein (AA 1-1423) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	SSH2
Protein Characteristics:	AA 1-1423
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SSH2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p> MALVTVQRSP TPSTTSSPCA SEADSGEEEC RSQPRSISES FLTVKGAALF LPRGNGSSTP RISHRRNKHA GDLQQHLQAM FILLRPEDNI RLAVRLESTY QNRTRYMVVV STNGRQDTEE SIVLGMDFSS NDSSTCTMGL VLPLWSDTLI HLDGDGGFSV STDNRVHIFK PVSVMQAMWSA LQSLHKACEV ARAHNYYPGS LFLTWVSYYE SHINSQSSV NEWNAMQDVQ SHRPDSPALF TDIPTERT ERLIKTKLRE IMMQKDLENI TSKEIRTELE MQMVCNLREF KEFIDNEMIV ILGQMDSPTQ IFEHVFLGSE WNASNLEDLQ NRGVRYILNV TREIDNFFPG VFEYHNIRVY DEEATDLLAY WNDTYKFISK AKKHGSKCLV HCKMGVSRSA STVIAYAMKE YGWNLDLAYD YVKERRTVTK PNPSFMRQLE EYQGILLASK QRHNKLWRSH SDSDLSDHHE PICKPGLELN KKDITTSADQ IAEVKTMESH PPIPPVFEH MVPQDANQKG LCTKERMICL EFTSREFHAG QIEDELNLND INGCSSGCCL NESKFPLDNC HASKALIQPG HVP EMANKFP DLTVEDLETD ALKADMNVHL LPMEELTSPL KDPPMSPDPE SPSPQPSCQT EISDFSTDRI DFFSALEKFV </p>

ELSQETRSRS FSHSRMEELG GGRNESCRLS VVEVAPSKVT ADDQRSSSLN NTPHASEESS
MDEEQSKAIS ELVSPDIFMQ SHSENAISVK EIVTEIESIS QGVGQIQLKG DILPNPCHTP
KKNSIHELLL ERAQTPENKP GHMEQDEEDSC TAQPELAKDS GMCNPEGCLT THSSIADLEE
GEPAGEQEL QGSGMHPGAK WYPGSVRRAT LEFEERLRQE QEHHGAAPTC TSLSTRKNSK
NDSSVADLAP KGKSDEAPPE HSFVLKEPEM SKGKGKYSKS EAGSLSHSEQ NATVPAPRVL
EFDHLPDPQE GPGSDTGTQQ EGVLDLRTV IPYQESSETQA VPLPLPKRVE IIEYTHIVTS
PNHTGPGSEI ATSEKSGEQG LRKVNMEKSV TVLCTLDENL NRTLDPNQVS LHPQVLPLPH
SSSPEHNRPT DHPTSILSSP EDRGSSLSTA LETAAPFVSH TTHLLSASLD YLHPQTMVHL
EGFTEQSSTT DEPSAEQVSW EESQESPLSS GSEVPYKDSQ LSSADLSLIS KLGDNTGELQ
EKMDPLPVAC RLPHSSSEN IKSLSHSPGV VKERAKEIES RVVFQAGLTK PSQMRRSASL
AKLGYLDLCK DCLPEREPAS CESPHLKLLQ PFLRTDSGMH AMEDQESLEN PGAPHNPEPT
KSFVEQLTTT ECIVQSKPVE RPLVQYAKEF GSSQQYLLPR AGLELTSSEG GLPVLQTQGL
QCACPAPGLA VAPRQQHGRT HPLRRLKKAN DKKRTTNPFY NTM

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

Product Details

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

Target:	SSH2
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Alternative Name:	SSH2 (SSH2 Products)
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Background:	Protein phosphatase Slingshot homolog 2 (EC 3.1.3.16) (EC 3.1.3.48) (SSH-like protein 2) (SSH-2L) (hSSH-2L),FUNCTION: Protein phosphatase which regulates actin filament dynamics. Dephosphorylates and activates the actin binding/depolymerizing factor cofilin, which subsequently binds to actin filaments and stimulates their disassembly. Inhibitory phosphorylation of cofilin is mediated by LIMK1, which may also be dephosphorylated and inactivated by this protein (PubMed:11832213). Required for spermatogenesis (By similarity). Involved in acrosome biogenesis, probably by regulating cofilin-mediated actin cytoskeleton remodeling during proacrosomal vesicle fusion and/or Golgi to perinuclear vesicle trafficking (By similarity). {ECO:0000250 UniProtKB:Q5SW75, ECO:0000269 PubMed:11832213}.
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Molecular Weight:	158.2 kDa
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UniProt:	Q76I76
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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
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Application Details

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