

Datasheet for ABIN3095650

ST5 Protein (AA 1-1137) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	ST5
Protein Characteristics:	AA 1-1137
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ST5 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AlIcE®
Sequence:	<p>MTMTANKNSS ITHGAGGTKA PRGTLRSQS VSPPPVLSP RSPIYPLSDS ETSACRYPSH</p> <p>SSSRVLLKDR HPPAPSPQN QDPSPDTSPP TCPFKTASFG YLDRSPSACK RDAQKESVQG</p> <p>AAQDVAGVAA CLPLAQSTPF PGPAAGPRGV LLTRTGTRAH SLGIREKISA WEGRREASPR</p> <p>MSMCGEKREG SGSEWAASEG CPSLGCPSVV PSPCSSEKTF DFKGLRRMSR TFSECSYPET</p> <p>EEEGEALPVR DSFYRLEKRL GRSEPSAFLR GHGSRKESSA VLSRIQKIEQ VLKEQPGRGL</p> <p>PQLPSSCYSV DRGKRKTGTL GSLEEPAGGA SVSAGSRAVG VAGVAGEAGP PPEREGSGST</p> <p>KPGTPGNPS SQRLPSKSSL DPAVNPVPKP KRTFEYEADK NPKSKPSNGL PPSPTPAAPP</p> <p>PLPSTPAPPV TRRPKKDMRG HRKSQSRKSF EFEDASSLQS LYPSSPTENG TENQPKFGSK</p> <p>STLEENAYED IVGDLPKENP YEDVDLKSRR AGRKSQQLSE NSLDSLHRMW SPQDRKYNSP</p> <p>PTQLSLKPNS QSLRSGNWSE RKSHRLPRLP KRSHHDDMLL LAQLSLPSSP SSLNEDSLST</p> <p>TSELLSSRRA RRIPKLVQRI NSIYNAKRGK KRLKKLSMSS IETASLRDEN SESESDSDDR</p>

FKAHTQRLVH IQSMLKRAPS YRTLELELLE WQERELFEYF VVSLKKKPS RNTYLPEVSY
QFPKLDPRPTK QMREAEERLK AIPQFCFPDA KDWLVPSEYS SETFSFMLTG EDGSRRFGYC
RRLPSGKGP RLPEVYCVIS RLGCGLFSK VLDEVERRRG ISAALVYPM RSLMESPFPA
PGKTIKVKT LPGAGNEVLE LRRPMSRLE HVDFECLFTC LSVRQLIRIF ASLLLERRVI
FVADKLSTLS SCSHAVVALL YPFSWQHTFI PVLPA SMIDI VCCPTPFLVG LLSSSLPKLK
ELPVEEALMV NLGSDRFIRQ MDDEDTLLPR KLQAALEQAL ERKNELISQD SDSDSDDECN
TLNGLVSEVF IRFFVETVGH YSLFLTQSEK GERAQREAF RKSVA SKSIR RFLEVFMSQ
MFAGFIQDRE LRKCRAKGLF EQRVEQYLEE LPDTEQSGMN KFLRGLGNKM KFLHKKN

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: ST5

Alternative Name: DENND2B ([ST5 Products](#))

Background: DENN domain-containing protein 2B (HeLa tumor suppression 1) (Suppression of tumorigenicity 5 protein),FUNCTION: [Isoform 1]: May be involved in cytoskeletal organization and tumorigenicity. Seems to be involved in a signaling transduction pathway leading to activation of MAPK1/ERK2. Plays a role in EGFR trafficking from recycling endosomes back to the cell membrane (PubMed:29030480). {ECO:0000269|PubMed:29030480, ECO:0000269|PubMed:9632734}, FUNCTION: [Isoform 2]: Guanine nucleotide exchange factor (GEF) which may activate RAB9A and RAB9B. Promotes the exchange of GDP to GTP, converting inactive GDP-bound Rab proteins into their active GTP-bound form. {ECO:0000269|PubMed:20937701}, FUNCTION: [Isoform 3]: May block ERK2 activation stimulated by ABL1 (Probable). May alter cell morphology and cell growth (Probable). {ECO:0000305|PubMed:10229203, ECO:0000305|PubMed:9632734}.

Molecular Weight: 126.5 kDa

UniProt: [P78524](#)

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

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