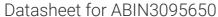
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ST5 Protein (AA 1-1137) (Strep Tag)





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Overview

Quantity:	1 mg
Target:	ST5
Protein Characteristics:	AA 1-1137
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ST5 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MTMTANKNSS ITHGAGGTKA PRGTLSRSQS VSPPPVLSPP RSPIYPLSDS ETSACRYPSH SSSRVLLKDR HPPAPSPQNP QDPSPDTSPP TCPFKTASFG YLDRSPSACK RDAQKESVQG AAQDVAGVAA CLPLAQSTPF PGPAAGPRGV LLTRTGTRAH SLGIREKISA WEGRREASPR MSMCGEKREG SGSEWAASEG CPSLGCPSVV PSPCSSEKTF DFKGLRRMSR TFSECSYPET EEEGEALPVR DSFYRLEKRL GRSEPSAFLR GHGSRKESSA VLSRIQKIEQ VLKEQPGRGL PQLPSSCYSV DRGKRKTGTL GSLEEPAGGA SVSAGSRAVG VAGVAGEAGP PPEREGSGST KPGTPGNSPS SQRLPSKSSL DPAVNPVPKP KRTFEYEADK NPKSKPSNGL PPSPTPAAPP PLPSTPAPPV TRRPKKDMRG HRKSQSRKSF EFEDASSLQS LYPSSPTENG TENQPKFGSK STLEENAYED IVGDLPKENP YEDVDLKSRR AGRKSQQLSE NSLDSLHRMW SPQDRKYNSP PTQLSLKPNS QSLRSGNWSE RKSHRLPRLP KRHSHDDMLL LAQLSLPSSP SSLNEDSLST TSELLSSRRA RRIPKLVQRI NSIYNAKRGK KRLKKLSMSS IETASLRDEN SESESDSDDR FKAHTQRLVH IQSMLKRAPS YRTLELELLE WQERELFEYF VVVSLKKKPS RNTYLPEVSY

QFPKLDRPTK QMREAEERLK AIPQFCFPDA KDWLPVSEYS SETFSFMLTG EDGSRRFGYC RRLLPSGKGP RLPEVYCVIS RLGCFGLFSK VLDEVERRRG ISAALVYPFM RSLMESPFPA PGKTIKVKTF LPGAGNEVLE LRRPMDSRLE HVDFECLFTC LSVRQLIRIF ASLLLERRVI FVADKLSTLS SCSHAVVALL YPFSWQHTFI PVLPASMIDI VCCPTPFLVG LLSSSLPKLK ELPVEEALMV NLGSDRFIRQ MDDEDTLLPR KLQAALEQAL ERKNELISQD SDSDSDDECN TLNGLVSEVF IRFFVETVGH YSLFLTQSEK GERAFQREAF RKSVASKSIR RFLEVFMESQ 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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 posttranslational 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 in several dilutions and is measured against its specific reference buffer.
- · We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

DENN domain-containing protein 2B (HeLa tumor suppression 1) (Suppression of

Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Grade:

Crystallography grade

Target Details

Target:

ST5

Alternative Name:

DENND2B (ST5 Products)

Background:

tumorigenicity 5 protein),FUNCTION: [Isoform 1]: May be involved in cytoskeletal organization and tumorogenicity. 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 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. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

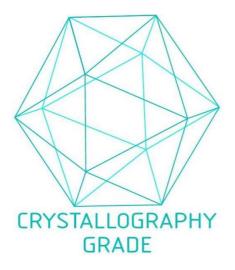


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process