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Datasheet for ABIN3096061

TTLL5 Protein (AA 1-1281) (Strep Tag)

1 Image

Overview

Quantity:	1 mg
Target:	TTLL5
Protein Characteristics:	AA 1-1281
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TTLL5 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MPIVMARDLE ETASSEDEE VISQEDHPCI MWTGGCRRIP VLVFHADAIL TKDNNIRVIG
 ERYHLSYKIV RTDSRLVRSI LTAHGFHEVH PSSTDYNLMW TGSHLKPFLI RTLSEAQKVN
 HFPRSYELTR KDRLYKNIIR MQHTHGFKAF HILPQTFLLP AEYAEFCNSY SKDRGPWIVK
 PVASSRGRGV YLINPNQIS LEENILVSRV INNPLIDDF KFDVRLVVLV TSYDPLVIYL
 YEEGLARFAT VRYDQGAKNI RNQFMHLTNY SVNKKSVDYV SCDDPEVEDY GNKWSMSAML
 RYLKQEGRDT TALMAHVEDL IIKTIISAEI AIATACTKTFV PHRSSCFELY GFDVLIDSTL
 KPWLLEVNLS PSLACDAPLD LKIKASMISD MFTVVGFVCQ DPAQRASTRP IYPTFESSRR
 NPFQKPQRCR PLSASDAEMK NLVGSAREKG PGKLGGSVLG LSMEEIKVLR RVKEENDRRG
 GFIRIFPTSE TWEIYGSYLE HKTSMNYMLA TRLFQDRMTA DGAPELKIES LNSKAKLHAA
 LYERKLLSLE VRKRRRRSSR LRAMRPKYPV ITQPAEMNVK TETESEEEEE VALDNEDEEQ
 EASQEEASGF LRENQAKYTP SLTALVENTP KENSMKVREW NKGKGGHCKL ETQELEPKFN
 LMQILQDNGN LSKMQARIAF SAYLQHVQIR LMKDGGGQTF SASWAAKEDQ QMELVVRFLK

RASNNLQHSL RMVLPSRRLA LLERRRILAH QLGDFFIIVYN KETEQMAEKK SKKKVEEEEE
DGVNMENFQE FIRQASEAEL EEVLTFYTQK NKSASVFLGT HSKISKNNNN YSDSGAKGDH
PETIMEEVKI KPPKQQTTE IHSDKLSRFT TSAEKEAKLV YSNSSSGPTA TLQKIPNTHL
SSVTSDLSP GPCHHSSLSQ IPSAIPSM PH QPTILLNTVS ASASPCLHPG AQNIPSPTGL
PRCRSGSHTI GPFSSFQSA HIYSQKLSRP SSAKAGSCYL NKHHSGIAKT QKEGEDASLY
SKRYNQSMVT AELQRLAEKQ AARQYSPSSH INLLTQQVTN LNLATGIINR SSASAPPTLR
PIISPSGPTW STQSDPQAPE NHSSSPGSR S LQTGGFAWEG EVENNVYSQA TGVVPQHKEYH
PTAGSYQLQF ALQQLEQKL QSRQLLDQSR ARHQAIFGSQ TLPNSNLWMT NNGAGCRISS
ATASGQKPTT LPQKVPPPS SCASLVPKPP PNHEQVLRRR TSQKASKGSS AEGQLNGLQS
SLNPAAFVPI TSSTDPAHTK I

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 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 -

Product Details

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®): <ol style="list-style-type: none">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.2. 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.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	TTLL5
Alternative Name:	TTLL5 (TTLL5 Products)
Background:	<p>Tubulin polyglutamylase TTLL5 (EC 6.3.2.-) (SRC1 and TIF2-associated modulatory protein) (STAMP protein) (Tubulin--tyrosine ligase-like protein 5),FUNCTION: Polyglutamylase which modifies tubulin, generating polyglutamate side chains on the gamma-carboxyl group of specific glutamate residues within the C-terminal tail of tubulin. Preferentially mediates ATP-dependent initiation step of the polyglutamylation reaction over the elongation step. Preferentially modifies the alpha-tubulin tail over a beta-tail (By similarity). Required for CCSAP localization to both polyglutamylated spindle and cilia microtubules (PubMed:22493317). Increases the effects of transcriptional coactivator NCOA2/TIF2 in glucocorticoid receptor-mediated repression and induction and in androgen receptor-mediated induction (PubMed:17116691). {ECO:0000250 UniProtKB:Q8CHB8, ECO:0000269 PubMed:17116691, ECO:0000269 PubMed:22493317}.</p>

Target Details

Molecular Weight: 143.6 kDa

UniProt: [Q6EMB2](#)

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