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Datasheet for ABIN3096145

TTLL8 Protein (AA 1-850) (Strep Tag)

Overview

Quantity:	1 mg
Target:	TTLL8
Protein Characteristics:	AA 1-850
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TTLL8 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MEPERKGLSL ASSSDGDGRE ENKCLKGISQ DCLASSRLDR YKIARQLTEK AIKEKKIFSI YGHYPVVRRAA LRRKGWVEKK FHFLPKVIPD VEDEGARVND DCAKVKENQ EMALEKTDNI HDVMSRLVKN EMPYLLWTIK RDIIDYHSLT YDQMLNHYAK TASFTTKIGL CVNMRSPLWY VPANPDSFFP RCYSLCTESE QQEFLEDFRR TMASSILKWV VSHQSCSRSS RSKPRDQREE AGSSDLSSRQ DAENAEAKLR GLPGQLVDIA CKVCQAYLGQ LEHEDIDTSA DAVEDLTEAE WEDLTQQYYS LVHGDAFISN SRNYFSQCQA LLNRITSVNP QTIDIGLRNI WIIKPAAKSR GRDIVCMDRV EEILELAAAD HPLSRDNKWW VQKYIETPLL ICDTKFDIRQ WFLVTDWNPL TIWFYKESYL RFSTQRFSLD KLDSAIHLCN NAVQKYLKND VGRSPLPAH NMWTSTRFQE YLQRQGRGAV WGSVIYPSMK KAI AHAMKVA QDHVEPRKNS FELYGADFVL GRDFRPWLIE INSSPTMHPS TPVTAQLCAQ VQEDTIKAV DRSCDIGNFE LLWRQPVVEP PPFSGSDLCV AGVSVRRARR QVLPVCNLKA SASLLDAQPL KARGPSAMPD PAQGPPSPAL QRDLGLKEEK GLPLALLAPL RGA AESGGAA QPTRTKAAGK VELPACPCRH VDSQAPNTGV PVAQPAKSWD
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PNQLNAHPLE PVLRLKTAE GALRPPPGGK GEGTVCSRLP HHGHHVAACQ TTGTTWDGGP
GVCFLRQLLA SELPMGPGLP RDPRAPPCLV CRGLLPAGP CKRCRSFCAA VLQGASFVRL
GGRSCSPRTP

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

Product Details

System (ALiCE®).

Purity: > 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Target Details

Target: TTLL8

Alternative Name: TTLL8 ([TTLL8 Products](#))

Background: Protein monoglycylase TTLL8 (EC 6.3.2.-) (Tubulin--tyrosine ligase-like protein 8),FUNCTION: Monoglycylase which modifies both tubulin and non-tubulin proteins, adding a single glycine to the gamma-carboxyl groups of specific glutamate residues to generate monoglycine side chains within the C-terminal tail of target proteins. Not involved in elongation step of the polyglycylation reaction. Preferentially monoglycylates alpha-tubulin over beta-tubulin. Together with TTLL3, mediates microtubule glycylation of primary and motile cilia, which is essential for their stability and maintenance. Together with TTLL3, glycylates sperm flagella which regulates axonemal dynein motor activity, thereby controlling flagellar beat, directional sperm swimming and male fertility. Monoglycylates non-tubulin proteins such as ANP32A, ANP32B, SET, NCL and NAP1. {ECO:0000250|UniProtKB:A4Q9F1}.

Molecular Weight: 94.7 kDa

UniProt: [A6PVC2](#)

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!

Application Details

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)