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Datasheet for ABIN3088948

WTX Protein (AA 1-1135) (Strep Tag)

1 Image

Overview

| | |
|-------------------------------|--|
| Quantity: | 1 mg |
| Target: | WTX (AMER1) |
| Protein Characteristics: | AA 1-1135 |
| Origin: | Human |
| Source: | Tobacco (<i>Nicotiana tabacum</i>) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This WTX protein is labelled with Strep Tag. |
| Application: | ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

Product Details

Sequence: METQKDEAAQ AKGAAASGST REQTAEKGAK NKA AEATEGP TSEPSSSGPG RLKKTAMKLF
GGKKGICTLP SFFGGGRSKG SGKGSSKKGL SKSKTHDGLS EAAHGPELVV SEGTGFSLPL
PELPCQFPSS QSAHGALETG SRCKTSVAGA TEKAVAEKFP SMPKPKKGLK GFFSSIRHRH
KSKVTGAEQS EPGAKGPV RARPHEHVSS APQVPCFEET FQAPRKENAN PQDAPGPKVS
PTPEPSPAT EKMACKDPEK PMEACASAHV QPKPAPEASS LEEPHSPETG EKVVAGEVNP
PNGPVGDPLS LLFGDVTSLK SFDSLTCGCGD IIAEQDMDSM TDSMASGGQR ANRDGTRRSS
CLVTYQGGGE EMALPDDDD EEEEEEEVEL EEEEEVKEE EEDDDLEYLW ETAQMYPRPN
MNLGYHPTTS PGHHGYMLLD PVRSYPLAP GELLTPQSDQ QESAPNSDEG YYDSTTPGFE
DDSGEALGLV RRDCLPRDSY SGDALYEFYE PDDSLNSPP GDDCLYDLHG RSSEMFDPFL
NFEPFLSSRP PGAMETEEER LVTIQKQLLY WELRREQLA QEARAREAHA REAHAREAYT
REAYGREAYA REHTWEAHG REARTREAQA REVRCRETQV RETQARQEKV VLEYQMRPLG
PSVMGLAAGV SGTSQISHRG ITSAFPTTAS SEPDWRDFRP LEKRYEGTCS KKDQSTCLMQ

LFQSDAMFEP DMQEANFGGS PRRAYPTYSP PEDPEEEVE KEGNATVSFS QALVEFTSNG
NLFSSMSCSS DSDSSFTQNL PELPPMVTFD IADVERDGEG KCEENPEFHN DEDLAASLEA
FELGYYHKHA FNNYHSRFYQ GLPWGVSSLP RYLGLPGLHP RPPPAAMALN RRSRSLDTAE
TLEMELNSH LVQGYLESDE LQAQQEDSDE EEEEEEGEW SRDSPLSLYT EPPGAYDWPA
WAPCPLPVGP GPAWISPNQL DRPSSQSPYR QATCCIPPMT MSISLVPES RAPGESGPQL
ARPSHLHLP GPCYNLQPQA SQSMRARPRD VLLPVDEPSC SSSSGGFSPS PLPQAKPVGI
THGIPQLPRV RPEHPQPQPT HYGPSLDLS KERAQEGASL ATSYSSTAMN GNLAK

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 - 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 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

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|-------------------|---|
| Target: | WTX (AMER1) |
| Alternative Name: | AMER1 (AMER1 Products) |
| Background: | APC membrane recruitment protein 1 (Amer1) (Protein FAM123B) (Wilms tumor gene on the X chromosome protein),FUNCTION: Regulator of the canonical Wnt signaling pathway. Acts by specifically binding phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2), translocating to the cell membrane and interacting with key regulators of the canonical Wnt signaling pathway, such as components of the beta-catenin destruction complex. Acts both as a positive and negative regulator of the Wnt signaling pathway, depending on the context: acts as a positive regulator by promoting LRP6 phosphorylation. Also acts as a negative regulator by acting as a scaffold protein for the beta-catenin destruction complex and promoting stabilization of Axin at the cell membrane. Promotes CTNNB1 ubiquitination and degradation. Involved in kidney development. {ECO:0000269 PubMed:17510365, ECO:0000269 PubMed:17925383, ECO:0000269 PubMed:19416806, ECO:0000269 PubMed:21304492, ECO:0000269 PubMed:21498506}. |
| Molecular Weight: | 124.0 kDa |
| UniProt: | Q5JTC6 |

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