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Datasheet for ABIN3096305

WAPAL Protein (AA 1-1190) (Strep Tag)

Overview

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| Quantity: | 1 mg |
| Target: | WAPAL |
| Protein Characteristics: | AA 1-1190 |
| Origin: | Human |
| Source: | Tobacco (Nicotiana tabacum) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This WAPAL protein is labelled with Strep Tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS) |

Product Details

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| Sequence: | MTSRFGKTYS RKGNGSSKF DEVFSNKRTT LSTKWGETTF MAKLGQKRPN FKPDIQEIPK KPKVEEESTG DPFGFDSDE SLPVSSKNLA QVKCSSYSES SEAAQLEEVTV SVLEANSKIS HVVVEDTVVS DKCFPLEDTL LGKEKSTNRI VEDDASISSC NKLITSDKVE NFHEEHEKNS HHIHKNAADS TKKPNAETTV ASEIKETNDT WNSQFGKRPE SPSEISPIKG SVRTGLFEWD NDFEDIRSED CILSLDSDPL LEMKDDDFKN RLENLNEAIE EDIVQSVLRP TNCRTYCRAN KTKSSQGASN FDKLMDGTSQ ALAKANSESS KDGLNQAKKG GVSCGTSFRG TVGRTRDYTV LHPSCLSVCN VTIQDTMERS MDEFTASTPA DLGEAGRLRK KADIATSKTT TRFRPSNTKS KKDVKLEFFG FEDHETGGDE GSGSSNYKI KYFGFDDLSE SEDDEDDDCQ VERKTSKKRT KTAPSPSLQP PPESNDNSQD SQSGTNNAEN LDFTEDLPV PESVKKPINK QGDKSKENTR KIFSGPKRSP TKAVYNARHW NHPDSEELPG PPVVKPQSVT VRLSSKEPNQ KDDGVFKAPA PPSKVIKTVT IPTQPYQDIV TALKCRREDK ELYTVVQHVK HFNDVVEFGE NQEFTDDIEY LLSGLKSTQP LNTCLSVIS LATKCAMPST RMHLRAHGMV AMVFKTLDDS QHHQNLSLCT |
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AALMYILSRD RLNMDLDRAS LDLMIRLLEL EQDASSAKLL NEKDMNKIKE KIRRLCETVH
NKHLDLENIT TGHLAMETLL SLTSKRAGDW FKEELRLLGG LDHIVDKVKE CVDHLSRDED
EEKLVASLWG AERCLRVLES VTVHNPENQS YLIAYKDSQL IVSSAKALQH CEELIQQYNR
AEDSICLADS KPLPHQNVN HVGKAVEDCM RAIIGVLLNL TNDNEWGSTK TGEQDGLIGT
ALNCVLQVPK YLPQEQRFDI RVLGLGLLIN LVEYSARNRH CLVNMETSCS FDSSICSGEG
DDSLRIGGQV HAVQALVQLF LERERAAQLA ESKTDELIKD APTTQHDKSG EWQETSGEIQ
WVSTEKTDGT EEKHKKEEED EELDLNKALQ HAGKHMEDCI VASYTALLG CLCQESPINV
TTVREYLPEG DFSIMTEMLK KFLSFMNLTC AVGTTGQKSI SRVIEYLEHC

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!

Product Details

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.
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:

WAPAL

Alternative Name:

WAPL ([WAPAL Products](#))

Background:

Wings apart-like protein homolog (Friend of EBNA2 protein) (WAPL cohesin release factor),FUNCTION: Regulator of sister chromatid cohesion in mitosis which negatively regulates cohesin association with chromatin (PubMed:26299517). Involved in both sister chromatid cohesion during interphase and sister-chromatid resolution during early stages of mitosis. Couples DNA replication to sister chromatid cohesion. Cohesion ensures that chromosome partitioning is accurate in both meiotic and mitotic cells and plays an important role in DNA repair. {ECO:0000269|PubMed:15150110, ECO:0000269|PubMed:17112726, ECO:0000269|PubMed:17113138, ECO:0000269|PubMed:19696148, ECO:0000269|PubMed:19907496, ECO:0000269|PubMed:21111234, ECO:0000269|PubMed:23776203, ECO:0000269|PubMed:26299517}.

Molecular Weight:

132.9 kDa

UniProt:

[Q7Z5K2](#)

Pathways:

[Chromatin Binding](#)

Application Details

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| 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. |
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| Comment: | <p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p> |
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| Restrictions: | For Research Use only |
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Handling

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| 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) |