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Datasheet for ABIN3135743

WHSC1L1 Protein (AA 1-1439) (Strep Tag)

Overview

Quantity:	1 mg
Target:	WHSC1L1
Protein Characteristics:	AA 1-1439
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This WHSC1L1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MDFSFSFMQG IMGNTIQQPP QLIDSANIRQ EDAFDNHSDI VEDGGPTPFE ATLQQGFQYP PTTEDLPPLT NGYPPSISLY ETQTKYPPYN QYPNGSANGF GAVRNFSPDT YYHSEIPNTR PHEILEKPSP PQPPPPPSVP QTVIPKKTGS PEIKLKITKT IQNGRELFES SLCGDLLNEV QASEHTKSKH ESRKEKRKKS NRHESSRSEE RRS HKIPKLE PEGQNRPNR VDTAPEKPRE EPVLKEAIPV QPILSSVPTT ETSTGVKFQV GDLVWSKVG TYPWWPCMVSS DPQLEVHSKI NTRGAREYHV QFFSNQPERA WVHEKRVREY KGHEQYEELL AEAQKASNH SEKQKIRKPR PQRERAQWDI GIAHA EKALK MTREERVEQY TFIYIDKQPE EASSQAKKNV TSKTEVKKPR RPRSVLNSQP EQTNAGEVAS SQSSTD LRRQ SQRRHTSLEE EEP PPVKIAW KTAAARKSLP ASITMHKGS L DLQCNMSPV VKIEQVFALQ NATGDGKFID QFVYSTKGIG NKTEISVRGQ DRLISSPSQ RSEKPAQSAS SPEATSGSAG PVEKKQRRS IRTSESEKS AEVVPKKKIK KEQVETAPQA SLKTGLQKGA SEISDCKPL KKRSTASTDV ETASCTYRDT SDSDSRGLSD GQVGFGKQVD SPSATADADA SDAQSV DSSL SRGVGTSKK DTVCQVCEKA GDCLVACEGE
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CCRHFHVECL GLTAVPEGHF TCEECETGQH PCFCKVSGK DVKRCVSVVC GKFYHEACVR
KFPTAIFESK GFRCPQHCCS SCSMEKDIHK ASKGRMMRCL RCPVAYHVGD ACVAAGSVSV
SSHILICSNH SKRSSQSAI NVGFCFVCAR GLIVQDHSDP MFSSYAYKSH YLLSESNRAE
LMKLPMIPSS SASKKRCEKG GRLLCCESCP ASFHPECLSI DMPEGCWNCN DCKAGKKLHY
KQIVVVKLGN YRQVLWWPAE ICSPRSVPLN IQGLKHDLDG FPVFFFGSHD YYVWHQGRVF
PYVEGDKHFA EGQTSINKTF KKALEEAAKR FQELKAQRES KEALEMERTS RKPPPYKHIK
ANKVIGKVQV QVADLSEIPR CNCKPGDENP CGLESQCLNR MSQYECHPQV CPAGDRCQNO
CFTKRLYPDA EVIKTERRGW GLRTKRSIKK GEFVNEYVGE LIDEEECRLR IKRAHENSVT
NFYMLTVTKD RIIDAGPKGN YSRFMNHSCN PNCETQKWTV NGDVRVGLFA LCDIPAGMEL
TFNYNLDCLG NGRTVCHCGA DNCSGFLGVR PKSACTSAVD EKTKNAKLLK RRVKAEAKP
IHEDYCFQCG DGGELVMCDK KDCPKAYHLL CLNLTQPPHG KWECPWHRCD ECGSVAVSFC
EFCPHSFCKA HGKGALVPSA LEGRGCCSSH DPASPVSPY WSKIRCKWES QDSGEEVKE

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

Product Details

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. 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:	WHSC1L1
Alternative Name:	Nsd3 (WHSC1L1 Products)
Background:	Histone-lysine N-methyltransferase NSD3 (EC 2.1.1.370) (EC 2.1.1.371) (Nuclear SET domain-containing protein 3) (Wolf-Hirschhorn syndrome candidate 1-like protein 1 homolog) (WHSC1-like protein 1),FUNCTION: Histone methyltransferase. Preferentially dimethylates 'Lys-4' and 'Lys-27' of histone H3 forming H3K2me2 and H3K27me2. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation, while 'Lys-27' is a mark for transcriptional repression. {ECO:0000250 UniProtKB:Q9BZ95}.
Molecular Weight:	161.0 kDa
UniProt:	Q6P2L6

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.
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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

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)