

Datasheet for ABIN3093701
MED1 Protein (AA 1-1581) (Strep Tag)

1 Image



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Overview

Quantity:	1 mg
Target:	MED1
Protein Characteristics:	AA 1-1581
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MED1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MKAQGETEES EKLSKMSSLL ERLHAKFNQN RPWSETIKLV RQVMEKRVVM SSGGHQHLVS CLETLQKALK VTSLPAMTDR LESIARQNGL GSHLSASGTE CYITSDMFYV EVQLDPAGQL CDVKVAHHGE NPVSCPELVQ QLREKNFDEF SKHLKGLVNL YNLPGDNKLK TKMYLALQSL EQDLSKMAIM YWKATNAGPL DKILHGSGVGY LTPRSGGHLM NLKYYVSPSD LLDDKTASPI ILHENNVSRs LGMNASVTIE GTSAVYKLPI APLIMGSHPV DNKWTPSFSS ITSANSVDLP ACFFLKFPQP IPVSRFVQK LQNCTGIPLF ETQPTYAPLY ELITQFELSK DPDPIPLNHN MRFYAALPGQ QHCYFLNKDA PLPDGRSLQG TLVSKITFQH PGRVPLILNL IRHQVAYNTL IGSCVKRTIL KEDSPGLLQF EVCPLSESRF SVSFQHPVND SLVCVVM DVQ DSTHV SCKLY KGLSDALICT DDFIAKV VQR CMSIPVTMRA IRRKAETIQA DTPALSLIAE TVEDMVKKNL PPASSPGYGM TTGNNPMSGT TTPTNTFPGG PITTLFNMSM SIKDRHESVG HGEDFSKVSQ NPILTSL LQI TGNGGSTIGS SPTPPHHTPP PVSSMAGNTK NHPMLMNL LK DNPAQDFSTL YGSSPLERQN SSSGSPRMEI CSGSNKTKKK KSSRLPPEKP KHQTEDDFQR ELFSMDVDSQ
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NPIFDVNMATA DTLDTPHITP APSQCSTPPT TYPQVPVHPQ PSIQRMVRLS SSDSIGPDVT
DILSDIAEEA SKLPSTSDDC PAIGTPLRDS SSSGHSQSTL FDSDVFQTN NENPYTDPAD
LIADAAGSPS SDSPTNHFFH DGVDNPDLL NSQSQSGFGE EYFDESSQSG DNDDFKGFAS
QALNTLGVPM LGGDNGETKF KGNNQADTV DFSIISVAGKA LAPADLMEHH SGSQGPLLTT
GDLGKEKTQK RVKEGNGTSN STLSGPGLDS KPGKRSRTPS NDGKSKDKPP KRKKADTEGK
SPSHSSSNRP FTPPTSTGGS KSPGSAGRSQ TPPGVATPPI PKITIQIPKG TVMVGKPSHH
SQYTSSGSVS SSGSKSHSH SSSSSSAST SGKMKSSKSE GSSSSKLSS MYSSQGSSGS
SQSKNSSQSG GKPSSPITK HGLSSGSSST KMKPQGKPS LMNPSLSKPN ISPSHSRPPG
GSDKLASPMK PVPGTTPSSK AKSPISSGSG GSHMSGTSSS SGMKSSSGLG SSGSLSQKTP
PSSNSCTASS SSFSSSGSSM SSSQNQHGS KKGKSPSRNKK PSLTAVIDKL KHGVVTSGPG
GEDPLDGQMG VSTNSSHPM SSKHNMSGGE FQKREKSDK DKSKVSTSGS SVDSSKKTSE
SKNVGSTGVA KIIISKHDGG SPSIAKAVTL QKPGESSGEG LRPQMASSKN YGSPLISGST
PKHERGSPSH SKSPAYTPQN LDSESESGSS IAEKSYQNSP SSDDGIRPLP EYSTEKHKKH
KKEKKKV KDK DRDRDRDKDR DKKKSHSIKP ESWSKSPISS DQSLSMTSNT ILSADRPSRL
SPDFMIGEED DDLMDVALIG N

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-

Product Details

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 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:	MED1
Alternative Name:	MED1 (MED1 Products)
Background:	Mediator of RNA polymerase II transcription subunit 1 (Activator-recruited cofactor 205 kDa component) (ARC205) (Mediator complex subunit 1) (Peroxisome proliferator-activated receptor-binding protein) (PBP) (PPAR-binding protein) (Thyroid hormone receptor-associated protein complex 220 kDa component) (Trap220) (Thyroid receptor-interacting protein 2) (TR-interacting protein 2) (TRIP-2) (Vitamin D receptor-interacting protein complex component DRIP205) (p53 regulatory protein RB18A),FUNCTION: Component of the Mediator complex, a coactivator involved in the regulated transcription of nearly all RNA polymerase II-dependent

Target Details

genes. Mediator functions as a bridge to convey information from gene-specific regulatory proteins to the basal RNA polymerase II transcription machinery. Mediator is recruited to promoters by direct interactions with regulatory proteins and serves as a scaffold for the assembly of a functional preinitiation complex with RNA polymerase II and the general transcription factors (PubMed:10406464, PubMed:11867769, PubMed:12037571, PubMed:12218053, PubMed:12556447, PubMed:14636573, PubMed:15340084, PubMed:15471764, PubMed:15989967, PubMed:16574658, PubMed:9653119). Acts as a coactivator for GATA1-mediated transcriptional activation during erythroid differentiation of K562 erythroleukemia cells (PubMed:24245781). {ECO:0000269|PubMed:10406464, ECO:0000269|PubMed:11867769, ECO:0000269|PubMed:12037571, ECO:0000269|PubMed:12218053, ECO:0000269|PubMed:12556447, ECO:0000269|PubMed:14636573, ECO:0000269|PubMed:15340084, ECO:0000269|PubMed:15471764, ECO:0000269|PubMed:15989967, ECO:0000269|PubMed:16574658, ECO:0000269|PubMed:24245781, ECO:0000269|PubMed:9653119}.

Molecular Weight:	168.5 kDa
UniProt:	Q15648
Pathways:	Nuclear Receptor Transcription Pathway , Intracellular Steroid Hormone Receptor Signaling Pathway , Regulation of Intracellular Steroid Hormone Receptor Signaling , Nuclear Hormone Receptor Binding , Chromatin Binding , Regulation of Lipid Metabolism by PPARalpha

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:	<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</p>

Application Details

	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)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process