Datasheet for ABIN3093701

MED1 Protein (AA 1-1581) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	MED1
Protein Characteristics:	AA 1-1581
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MED1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MKAQGETEES EKLSKMSSLL ERLHAKFNQN RPWSETIKLV RQVMEKRVVM SSGGHQHLVS CLETLQKALK VTSLPAMTDR LESIARQNGL GSHLSASGTE CYITSDMFYV EVQLDPAGQL CDVKVAHHGE NPVSCPELVQ QLREKNFDEF SKHLKGLVNL YNLPGDNKLK TKMYLALQSL EQDLSKMAIM YWKATNAGPL DKILHGSVGY LTPRSGGHLM NLKYYVSPSD LLDDKTASPI ILHENNVSRS LGMNASVTIE GTSAVYKLPI APLIMGSHPV DNKWTPSFSS ITSANSVDLP ACFFLKFPQP IPVSRAFVQK LQNCTGIPLF ETQPTYAPLY ELITQFELSK DPDPIPLNHN MRFYAALPGQ QHCYFLNKDA PLPDGRSLQG TLVSKITFQH PGRVPLILNL IRHQVAYNTL IGSCVKRTIL KEDSPGLLQF EVCPLSESRF SVSFQHPVND SLVCVVMDVQ DSTHVSCKLY KGLSDALICT DDFIAKVVQR CMSIPVTMRA IRRKAETIQA DTPALSLIAE TVEDMVKKNL PPASSPGYGM TTGNNPMSGT TTPTNTFPGG PITTLFNMSM SIKDRHESVG HGEDFSKVSQ NPILTSLLQI TGNGGSTIGS SPTPPHHTPP PVSSMAGNTK NHPMLMNLLK DNPAQDFSTL YGSSPLERQN SSSGSPRMEI CSGSNKTKKK KSSRLPPEKP KHQTEDDFQR ELFSMDVDSQ

NPIFDVNMTA DTLDTPHITP APSQCSTPPT TYPQPVPHPQ PSIQRMVRLS SSDSIGPDVT DILSDIAEEA SKLPSTSDDC PAIGTPLRDS SSSGHSQSTL FDSDVFQTNN NENPYTDPAD LIADAAGSPS SDSPTNHFFH DGVDFNPDLL NSQSQSGFGE EYFDESSQSG DNDDFKGFAS QALNTLGVPM LGGDNGETKF KGNNQADTVD FSIISVAGKA LAPADLMEHH SGSQGPLLTT GDLGKEKTQK RVKEGNGTSN STLSGPGLDS KPGKRSRTPS NDGKSKDKPP KRKKADTEGK SPSHSSSNRP FTPPTSTGGS KSPGSAGRSQ TPPGVATPPI PKITIQIPKG TVMVGKPSSH SQYTSSGSVS SSGSKSHHSH SSSSSSSAST SGKMKSSKSE GSSSSKLSSS MYSSQGSSGS SQSKNSSQSG GKPGSSPITK HGLSSGSSST KMKPQGKPSS LMNPSLSKPN ISPSHSRPPG GSDKLASPMK PVPGTPPSSK AKSPISSGSG GSHMSGTSSS SGMKSSSGLG SSGSLSQKTP PSSNSCTASS SSFSSSGSSM SSSQNQHGSS KGKSPSRNKK PSLTAVIDKL KHGVVTSGPG GEDPLDGQMG VSTNSSSHPM SSKHNMSGGE FQGKREKSDK DKSKVSTSGS SVDSSKKTSE SKNVGSTGVA KIIISKHDGG SPSIKAKVTL QKPGESSGEG LRPQMASSKN YGSPLISGST PKHERGSPSH SKSPAYTPQN LDSESESGSS IAEKSYQNSP SSDDGIRPLP EYSTEKHKKH KKEKKKVKDK DRDRDRDKDR DKKKSHSIKP ESWSKSPISS DQSLSMTSNT ILSADRPSRL SPDFMIGEED DDLMDVALIG N

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human MED1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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

Product Details

	specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	MED1
Alternative Name:	MED1 (MED1 Products)
Background:	Component of the Mediator complex, a coactivator involved in the regulated transcription of nearly all RNA polymerase II-dependent 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,

Target Details

	ECO:0000269|PubMed:24245781, ECO:0000269|PubMed:9653119}.
Molecular Weight:	169.4 kDa Including tag.
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 gurantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
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