

Datasheet for ABIN3093768

MED14 Protein (AA 1-1454) (Strep Tag)



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1 Image

Overview

| | |
|-------------------------------|--|
| Quantity: | 1 mg |
| Target: | MED14 |
| Protein Characteristics: | AA 1-1454 |
| Origin: | Human |
| Source: | Tobacco (<i>Nicotiana tabacum</i>) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This MED14 protein is labelled with Strep Tag. |
| Application: | ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

Product Details

| | |
|-----------|---|
| Sequence: | <p>MAPVQLENHQ LVPPGGGGGG SGGPPSAPAP PPPGAAVAAA AAAAASPGYR LSTLIEFLLH RAYSELMVLT DLLPRKSDVE RKIEIVQFAS RTRQLFVRL ALVKWANNAG KVEKCAMISS FLDQQAILFV DTADRLASLA RDALVHARLP SFAIPYADV LTTGSYPRLP TCIRDKIIPP DPITKIEKQA TLHQLNQILR HRLVTTDLPP QLANLTVANG RVKFRVEGEF EATLTVMGDD PDVPWRLLKL EILVEDKETG DGRALVHSMQ ISFIHQLVQS RFADEKPLQ DMYNCLHSFC LSLQLEVLHS QTLMLIRERW GDLVQVERYH AGKCLSLSVW NQQVLGRKTG TASVHKVTIK IDENDVSKPL QIFHDPPLPA SDSKLVVERAM KIDHLSIEKL LIDSVHARAH QKLQELKAIL RGFNANENSS IETALPALVV PILEPCGNSE CLHIFVDLHS GMFQLMLYGL DQATLDDMEK SVNDDMKRII PWIQLKFWL GQQRCKQSIK HLPTISSETL QLSNYSTHPI GNLSKNKLF I KLTRLPQYYI VVEMLEVPNK PTQLSYKYF MSVNAADRED SPAMALLLQQ FKENIQDLVF RTKTGKQTRT NAKRKLSDDP CPVESKTKR AGEMCAFNKV LAHFVAMCDT NMPFVGLRLE LSNLEIPHQG VQVEGDGFSH AIRLLKIPPC KGITEETQKA LDRSLDCTF RLQGRNNRTW VAELVFANCP</p> |
|-----------|---|

LNGTSTREQG PSRHVYLTYE NLLSEPVGGR KVVEMFLNDW NSIARLYECV LEFARSLPDI
PAHLNIFSEV RVYNYRKLIL CYGTTKGSSI SIQWNSIHQK FHISLGTVGP NSGCSNCHNT
ILHQLQEMFN KTPNVVQLLQ VLFDTQAPLN AINKLPTVPM LGLTQRTNTA YQCFSILPQS
STHIRLAFRN MYCIDIYCRS RGVVAIRDGA YSLFDNSKLV EGFYPAPGLK TFLNMFVDSN
QDARRRSVNE DDNPPSPIGG DMMDSLISQL QPPPQQQPFK KQPGTSGAYP LTSPTSYPHS
TVNQSPSMMH TQSPGNLHAA SSPSGALRAP SPASFVPTPP PSSHGISIGP GASFASPHGT
LDPSSPYTMV SPSGRAGNWP GSPQVSGPSP AARMPGMSPA NPSLHSPVPD ASHSPRAGTS
SQTMPNTMPP PRKLPQRSWA ASIPTILTHS ALNILLPSP TPGLVPGLAG SYLCSPLERF
LGSVIMRRHL QRIIQQETLQ LINSNEPGVI MFKTDALKCR VALSPKTNQT LQLKVTPENA
GQWKPDELQV LEKFFETRVA GPPFKANTLI AFTKLLGAPT HILRDCVHIM KLELFPDQAT
QLKWNVQFCL TIPPSAPPPIA PPGTPAVLK SKMLFFLQLT QKTSVPPQEP VSIIVPIIYD
MASGTTQQAD IPRQQNSSVA APMMVSNILK RFAEMNPPRQ GECTIFAAVR DLMANLTLPP GGRP

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

Product Details

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:

MED14

Alternative Name:

MED14 ([MED14 Products](#))

Background:

Mediator of RNA polymerase II transcription subunit 14 (Activator-recruited cofactor 150 kDa component) (ARC150) (Cofactor required for Sp1 transcriptional activation subunit 2) (CRSP complex subunit 2) (Mediator complex subunit 14) (RGR1 homolog) (hRGR1) (Thyroid hormone receptor-associated protein complex 170 kDa component) (Trap170) (Transcriptional coactivator CRSP150) (Vitamin D3 receptor-interacting protein complex 150 kDa component) (DRIP150),FUNCTION: 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

Target Details

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.

{ECO:0000269|PubMed:15340088, ECO:0000269|PubMed:15625066, ECO:0000269|PubMed:16595664}.

Molecular Weight: 160.6 kDa

UniProt: [O60244](#)

Pathways: [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Nuclear Hormone Receptor Binding](#), [Stem Cell Maintenance](#), [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: 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

Handling

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