

Datasheet for ABIN3093768

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



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Overview

Quantity:	250 µg
Target:	MED14
Protein Characteristics:	AA 1-1454
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MED14 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MAPVQLENHQ LVPPGGGGGG SGGPPSAPAP PPPGAAVAAA AAAAASPGYR LSTLIEFLLH</p> <p>RAYSELMVLT DLLPRKSDVE RKIEIVQFAS RTRQLFVRL ALVKWANNAG KVEKCAMISS</p> <p>FLDQQAILFV DTADRLASLA RDALVHARLP SFAIPYADV LTTGSYPRLP TCIRDKIIPP DPITKIEKQA</p> <p>TLHQLNQILR HRLVTTDLPP QLANLTVANG RVKFRVEGEF EATLTVMGDD PDVPWRLLKL</p> <p>EILVEDKETG DGRALVHSMQ ISFIHQLVQS RLFADEKPLQ DMYNCLHSFC LSLQLEVLHS</p> <p>QTLMLIRERW GDLVQVERYH AGKCLSLSVW NQQVLGRKTG TASVHKVTIK IDENDVSKPL</p> <p>QIFHDPPLPA SDSKLVERAM KIDHLSIEKL LIDSVHARAH QKLQELKAIL RGFNANENSS</p> <p>IETALPALVV PILEPCGNSE CLHIFVDLHS GMFQLMLYGL DQATLDDMEK SVNDDMKRII</p> <p>PWIIQLKFWL GQQRCKQSIK HLPTISSETL QLSNYSTHPI GNLSKNKLF KLTRLPPQYYI</p> <p>VVEMLEVPNK PTQLSYKYFF MSVNAADRED SPAMALLLQQ FKENIQDLVF RTKTGKQTRT</p> <p>NAKRKLSDDP CPVESKKTTR AGEMCAFNKV LAHFVAMCDT NMPFVGLRLE LSNLEIPHQG</p>

VQVEGDGFSH AIRLLKIPPC KGITEETQKA LDRSLDCTF RLQGRNNRTW VAELVFANCP
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 QPPPQQQFPF KQPGTSGAYP LTSPPTSYPH
TVNQSPSMMH TQSPGNLHAA SSPSGALRAP SPASFVPTPP PSSHGISIGP GASFASPHGT
LDPSSPYTMV SPSGRAGNWP GSPQVSGPSP AARMPGMSPA NPSLHSPVPD ASHSPRAGTS
SQTMPPTNMPP PRKLPQRSWA ASIPTILTHS ALNILLLPSP TPGLVPGLAG SYLCSPLERF
LGSVIMRRHL QRIIQETLQ LINSNEPGVI MFKTDALKCR VALSPKTNQT LQLKVTPEA
GQWKPDQLV LEKFFETRVA GPPFKANTLI AFTKLLGAPT HILRDCVHIM KLELFPDQAT
QLKWNVQFCL TIPSPAPPIA PPGTAVVLK SKMLFFLQLT QKTSVPPQEP VSIIVPIIYD
MASGTTQQAD IPRQQNSSVA APMMVSNILK RFAEMNPPRQ GECTIFAAGR 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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	MED14
Alternative Name:	MED14 (MED14 Products)
Background:	<p>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 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.</p> <p>{ECO:0000269 PubMed:15340088, ECO:0000269 PubMed:15625066, ECO:0000269 PubMed:16595664}.</p>
Molecular Weight:	160.6 kDa

Target Details

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:	<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>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	<p>The buffer composition is at the discretion of the manufacturer.</p> <p>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.</p>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months