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Datasheet for ABIN3093791

**MED16 Protein (AA 1-877) (Strep Tag)**

## Overview

Quantity:	1 mg
Target:	MED16
Protein Characteristics:	AA 1-877
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This MED16 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Sequence: MCDLRRPAAG GMMDLAYVCE WEKWSKSTHC PSVPLACAWS CRNLIAFTMD LRSDDQDLTR  
MIHILDTEHP WDLHSIPSEH HEAITCLEWD QSGSRLLSAD ADGQIKCWSM ADHLANSWES  
SVGSLVEGDP IVALSWLHNG VKLALHVEKS GASSFGEKFS RVKFSPSLTL FGGKPMEGWI  
AVTVSGLVTV SLLKPSGQVL TSTESLCRLR GRVALADIAF TGGGNIVVAT ADGSSASPVQ  
FYKVCVSVVS EKCRIDTEIL PSLFMRCTTD LNRKDKFPAI THLKFLARDM SEQVLLCASS  
QTSSIVECWS LRKEGLPVNN IFQQISPVVG DKQPTILKWR ILSATNDLDR VSAVALPKLP  
ISLTNTDLKV ASDTQFYPGL GLALAFHDGS VHIVHRLSLQ TMAVFYSSAA PRPVDEPAMK  
RPRTAGPAVH LKAMQLSWTS LALVGIDSHG KLSVLRLSPS MGHPLEVGLA LRHLLFLLEY  
CMVTGYDWWDD ILLHVQPSMV QSLVEKLHEE YTRQTAALQQ VLSTRILAMK ASLCKLSPCT  
VTRVCDYHTK LFLIAISSTL KSLLRPHFLN TPKSPGDRL TEICTKITDV DIDKVMINLK  
TEEFVLDMNT LQALQQLLQW VGDFVLYLLA SLPNQGSLLR PGHSFLRDGT SLGMLRELMV  
VIRIWGLLKP SCLPVYTATS DTQDSMSLLF RLLTKLWICC RDEGPASEPD EALVDECCLL

PSQLLIPSLD WLPASDGLVS RLQPKQPLRL QFGRAPTLPG SAATLQLDGL ARAPGQPKID  
HLRRLHLGAC PTEECKACTR CGCVTMLKSP NRTTAVKQWE QRWIKNCLAV EGRGPDACVT  
SRASEEAPAF VQLGPQSTHH SPRTPRSLDH LHPEDRP

**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.**

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### 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 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.

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### Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression

## Product Details

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System (ALiCE®).

Purity: > 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

## Target Details

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Target: MED16

Alternative Name: MED16 ([MED16 Products](#))

Background: Mediator of RNA polymerase II transcription subunit 16 (Mediator complex subunit 16) (Thyroid hormone receptor-associated protein 5) (Thyroid hormone receptor-associated protein complex 95 kDa component) (Trap95) (Vitamin D3 receptor-interacting protein complex 92 kDa component) (DRIP92),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. {ECO:0000269|PubMed:10198638, ECO:0000269|PubMed:10235266}.

Molecular Weight: 96.8 kDa

UniProt: [Q9Y2X0](#)

Pathways: [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Nuclear Hormone Receptor Binding](#), [Regulation of Lipid Metabolism by PPARalpha](#)

## Application Details

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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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Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.  
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months