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AFF4 Protein (AA 1-1163) (Strep Tag)



Image



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Overview

Quantity:	1 mg
Target:	AFF4
Protein Characteristics:	AA 1-1163
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AFF4 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MNREDRNVLR MKERERRNQE IQQGEDAFPP SSPLFAEPYK VTSKEDKLSS RIQSMLGNYD EMKDFIGDRS IPKLVAIPKP TVPPSADEKS NPNFFEQRHG GSHQSSKWTP VGPAPSTSQS QKRSSGLQSG HSSQRTSAGS SSGTNSSGQR HDRESYNNSG SSSRKKGQHG SEHSKSRSSS PGKPQAVSSL NSSHSRSHGN DHHSKEHQRS KSPRDPDANW DSPSRVPFSS GQHSTQSFPP SLMSKSNSML QKPTAYVRPM DGQESMEPKL SSEHYSSQSH GNSMTELKPS SKAHLTKLKI PSQPLDASAS GDVSCVDEIL KEMTHSWPPP LTAIHTPCKT EPSKFPFPTK ESQQSNFGTG EQKRYNPSKT SNGHQSKSML KDDLKLSSSE DSDGEQDCDK TMPRSTPGSN SEPSHHNSEG ADNSRDDSSS HSGSESSSGS DSESESSSSD SEANEPSQSA SPEPEPPPTN KWQLDNWLNK VNPHKVSPAS SVDSNIPSSQ GYKKEGREQG TGNSYTDTSG PKETSSATPG RDSKTIQKGS ESGRGRQKSP AQSDSTTQRR TVGKKQPKKA EKAAAEEPRG GLKIESETPV DLASSMPSSR HKAATKGSRK PNIKKESKSS PRPTAEKKKY KSTSKSSQKS REIIETDTSS SDSDESESLP PSSQTPKYPE SNRTPVKPSS VEEEDSFFRQ RMFSPMEEKE LLSPLSEPDD RYPLIVKIDL

NLLTRIPGKP YKETEPPKGE KKNVPEKHTR EAQKQASEKV SNKGKRKHKN EDDNRASESK KPKTEDKNSA GHKPSSNRES SKQSAAKEKD LLPSPAGPVP SKDPKTEHGS RKRTISQSSS LKSSSNSNKE TSGSSKNSSS TSKQKKTEGK TSSSSKEVKE KAPSSSSNCP PSAPTLDSSK PRRTKLVFDD RNYSADHYLQ EAKKLKHNAD ALSDRFEKAV YYLDAVVSFI ECGNALEKNA QESKSPFPMY SETVDLIKYT MKLKNYLAPD ATAADKRLTV LCLRCESLLY LRLFKLKKEN ALKYSKTLTE HLKNSYNNSQ APSPGLGSKA VGMPSPVSPK LSPGNSGNYS SGASSASASG SSVTIPQKIH QMAASYVQVT SNFLYATEIW DQAEQLSKEQ KEFFAELDKV MGPLIFNASI MTDLVRYTRO GLHWLRODAK LIS

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 posttranslational 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.
- 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:

AFF4

Alternative Name:

AFF4 (AFF4 Products)

Background:

AF4/FMR2 family member 4 (ALL1-fused gene from chromosome 5q31 protein) (Protein AF-5q31) (Major CDK9 elongation factor-associated protein),FUNCTION: Key component of the super elongation complex (SEC), a complex required to increase the catalytic rate of RNA polymerase II transcription by suppressing transient pausing by the polymerase at multiple sites along the DNA. In the SEC complex, AFF4 acts as a central scaffold that recruits other factors through direct interactions with ELL proteins (ELL, ELL2 or ELL3) and the P-TEFb complex. In case of infection by HIV-1 virus, the SEC complex is recruited by the viral Tat protein to stimulate viral gene expression. {ECO:0000269|PubMed:20159561, ECO:0000269|PubMed:20471948, ECO:0000269|PubMed:23251033}.

Molecular Weight:

127.5 kDa

UniProt:

Q9UHB7

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
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