

Datasheet for ABIN3092631

FMN1 Protein (AA 1-1419) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	FMN1
Protein Characteristics:	AA 1-1419
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FMN1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MEGTHCTLQL HKPITELCYI SFCLPKGEVR GFSYKGTVTL DRSNKG FHNC YQVREESDII</p> <p>SLSQEPDEHP GDIFFKQTPT KDILT ELYKL TTERERLLTN LLSSDHILGI TMGNQEGKLQ</p> <p>ELSVSLAPED DCFQSAGDWQ GELPVGPLNK RSTHGNNKKPR RSSGRRESFG ALPQKRTKRK</p> <p>GRGGRESAPL MGKDKICSSH SLPLSRTRPN LWVLEEKGNL LPNGALACSL QRRESCPPDI</p> <p>PKTPDIDLGF GSFETAFKDT GLGREVLPPD CSSTEAGGDG IRRPPSGLEH QQTGLSESHQ</p> <p>DPEKHPEAEK DEMEKPAKRT CKQKPVSKVV AKVQDLSSQV QRVVKTHSKG KETIAIRPAA</p> <p>HAEFVPKADL LTLPGAEGA HGSRRQGKER QGDRSSQSPA GETASISSVS ASAEGAVNKV</p> <p>PLKVIESEKL DEAPEGKRLG FVPHTSVPH T RPETRNKRRR GLPLGGHKSL FLDLPHKVGP</p> <p>DSSQPRGDKK KPSPPPAAL GKVFNNSASQ SSTHKQTSPV PSPLSPRLPS PQQHHRILRL</p> <p>PALPGEREAA LNDSPCRKSR VFSGCVSADT LEPPSSAKVT ETKGASPAFL RAGQPRLVPG</p> <p>ETLEKSLGPG KTTAEPQHQS PPGISSEGFP WDFNEQTPK DLPNRDGGAW VLG YRAGPAC</p>

PFLHHEEREK SNRSELYLDL HPDHSLTEQD DRTPGRLQAV WPPPKTKDTE EKVGLKYTEA
EYQAAILHLK REHKEEENL QAQFELRAFH IRGEHAMITA RLEETIENLK HELEHRWRGG
CEERKDVCIS TDDDCPPKTF RNVCVQTDRE TFLKPCESSES KTTRSNQLVP KKLNISSLSQ
LSPNDHKDI HAALQPMEGM ASNQQKALPP PPASIPPPPP LPSGLGSLSP APPMPPVSAG
PPLPPPPPPP PPLPPPSSAG PPPPPPPPL PNSPAPPNPG GPPPAPPPPG LAPP PPPGLF
FGLGSSSSQC PRKPAIEPSC PMKPLYWTRI QISDRSQNAT PTLWDSLEEP DIRDPSEFEY
LFSKDTTQQK KKPLSETYEK KNKVKKIIL LDGKRSQTVG ILISSLHLEM KDIQQAIFNV
DDSVVDLETL AALYENRAQE DELVKIRKYY ETSKEEELKL LDKPEQFLHE LAQIPNFAER
AQCIIFRSVF SEGITSLHRK VEITRASKD LLHVKSVDI LALILAFGNY MNGGNRTRGQ
ADGYSLEILP KLKDVKSRDN GINLVDYVVK YYLRYDQEA GTEKSVFPLP EPQDFFLASQ
VKFEDLIKDL RKLKRQLEAS EKQMVVCKE SPKEYLQPFK DKLEEFFQKA KKEHKMEESH
LENAQKSFET TVRYFGMKPK SGEKEITPSY VFMVWYEFCS DFKTIWKRES KNISKERLKM
AQESVSKLTS EKKVETKIN PTASLKERLR QKEASVTTN

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 protein production are removed, leaving only the protein production machinery and the

Product Details

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:	FMN1
Alternative Name:	FMN1 (FMN1 Products)
Background:	Formin-1 (Limb deformity protein homolog),FUNCTION: Plays a role in the formation of adherens junction and the polymerization of linear actin cables. {ECO:0000250}.
Molecular Weight:	157.6 kDa
UniProt:	Q68DA7
Pathways:	Regulation of Actin Filament Polymerization

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 <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.

Application Details

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. 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