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Datasheet for ABIN3080211
FEM1A Protein (AA 1-669) (Strep Tag)

Overview

Quantity:	1 mg
Target:	FEM1A
Protein Characteristics:	AA 1-669
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FEM1A protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MDLRTAVYNA ARDGKLQLLQ KLLSGRSREE LDELTGEVAG GGTPLLIAAR YGHLDVVEYL
VDRCGASVEA GGSVHFDGET IEGAPPLWAA SAAGHLDVVR SLLRRGASVN RTRRTNSTPL
RAACFDGHLE VVRYLVGEHQ ADLEVANRHG HTCLMISCYK GHREIARYLL EQGAQVNRRS
AKGNTALHDC AESGSLEILQ LLLGCKARME RDGYGMTPLL AASVTGHTNI VEYLIQECPG
QEQVAGGEAQ PGLPQEDPST SQGCAQPQGA PCCSSSPEEP LNGESYESCC PTSREAAVEA
LELLGATYVD KKRDLLGALK HWRRAMELRH QGGEYLPKPE PPQLVLAYDY SREVNTEEL
EALITDPDEM RMQALLIRER ILGSPHPDTS YYIRYRGAVY ADSGNFERCI RLWKYALDMQ
QSNLEPLSPM TASSFLSFAE LFSYVLQDRA AKGSLGTQIG FADLMGVLTK GVREVERALQ
LPREPGDSAQ FTKALAILH LLYLLEKVEC TPSQEHLKHQ TVYRLLKCAP RGKNGFTPLH
MAVDKDTTNV GRYPVGRFPS LHVVKVLLDC GADPDSRDFD NNTPLHIAAQ NNCPAIMNAL
IEAGAHMDAT NAFKKTAYEL LDEKLLARGT MQPFNYVTLQ CLAARALDKN KIPYKGFIFE
DLEAFIELH

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 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®):

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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)

Target Details

Target: FEM1A

Alternative Name: FEM1A ([FEM1A Products](#))

Background: Protein fem-1 homolog A (FEM1a) (FEM1-alpha) (Prostaglandin E receptor 4-associated protein),FUNCTION: Substrate-recognition component of a Cul2-RING (CRL2) E3 ubiquitin-protein ligase complex of the DesCEND (destruction via C-end degrons) pathway, which recognizes a C-degron located at the extreme C terminus of target proteins, leading to their ubiquitination and degradation (PubMed:29779948, PubMed:33398168, PubMed:33398170). The C-degron recognized by the DesCEND pathway is usually a motif of less than ten residues and can be present in full-length proteins, truncated proteins or proteolytically cleaved forms (PubMed:29779948, PubMed:33398168, PubMed:33398170). The CRL2(FEM1A) complex specifically recognizes proteins with an arginine at the C-terminus: recognizes and binds proteins ending with -Lys/Arg-Xaa-Arg and -Lys/Arg-Xaa-Xaa-Arg C-degrons, such as SIL1 or OR51B2, leading to their ubiquitination and degradation (PubMed:33398168, PubMed:33398170). Promotes ubiquitination and degradation of SLBP (PubMed:28118078). Involved in PGE2-EP4-mediated inhibition of inflammation of macrophages via interaction with NFKB1 and PTGER4 (By similarity). Promotes inflammation in brain microglia through MAP2K4/MKK4-mediated signaling (By similarity). {ECO:0000250|UniProtKB:Q9Z2G1, ECO:0000269|PubMed:28118078, ECO:0000269|PubMed:29779948, ECO:0000269|PubMed:33398168, ECO:0000269|PubMed:33398170}.

Molecular Weight: 73.6 kDa

UniProt: [Q9BSK4](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies

Application Details

as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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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)