Datasheet for ABIN3092595

FES Protein (AA 1-822) (Strep Tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	FES
Protein Characteristics:	AA 1-822
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FES protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MGFSSELCSP QGHGVLQQMQ EAELRLLEGM RKWMAQRVKS DREYAGLLHH MSLQDSGGQS RAISPDSPIS QSWAEITSQT EGLSRLLRQH AEDLNSGPLS KLSLLIRERQ QLRKTYSEQW QQLQQELTKT HSQDIEKLKS QYRALARDSA QAKRKYQEAS KDKDRDKAKD KYVRSLWKLF AHHNRYVLGV RAAQLHHQHH HQLLLPGLLR SLQDLHEEMA CILKEILQEY LEISSLVQDE VVAIHREMAA AAARIQPEAE YQGFLRQYGS APDVPPCVTF DESLLEEGEP LEPGELQLNE LTVESVQHTL TSVTDELAVA TEMVFRRQEM VTQLQQELRN EEENTHPRER VQLLGKRQVL QEALQGLQVA LCSQAKLQAQ QELLQTKLEH LGPGEPPPVL LLQDDRHSTS SSEQEREGGR TPTLEILKSH ISGIFRPKFS LPPPLQLIPE VQKPLHEQLW YHGAIPRAEV AELLVHSGDF LVRESQGKQE YVLSVLWDGL PRHFIIQSLD NLYRLEGEGF PSIPLLIDHL LSTQQPLTKK SGVVLHRAVP KDKWVLNHED LVLGEQIGRG NFGEVFSGRL RADNTLVAVK SCRETLPPDL KAKFLQEARI LKQYSHPNIV RLIGVCTQKQ PIYIVMELVQ GGDFLTFLRT EGARLRVKTL LQMVGDAAAG MEYLESKCCI HRDLAARNCL VTEKNVLKIS DFGMSREEAD GVYAASGGLR

QVPVKWTAPE ALNYGRYSSE SDVWSFGILL WETFSLGASP YPNLSNQQTR EFVEKGGRLP CPELCPDAVF RLMEQCWAYE PGQRPSFSTI YQELQSIRKR HR

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.

Product Details

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. 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:	FES
Alternative Name:	FES (FES Products)
Background:	Tyrosine-protein kinase Fes/Fps (EC 2.7.10.2) (Feline sarcoma/Fujinami avian sarcoma oncogene homolog) (Proto-oncogene c-Fes) (Proto-oncogene c-Fps) (p93c-fes),FUNCTION: Tyrosine-protein kinase that acts downstream of cell surface receptors and plays a role in the regulation of the actin cytoskeleton, microtubule assembly, cell attachment and cell spreading. Plays a role in FCER1 (high affinity immunoglobulin epsilon receptor)-mediated signaling in mast cells. Acts down-stream of the activated FCER1 receptor and the mast/stem cell growth factor receptor KIT. Plays a role in the regulation of mast cell degranulation. Plays a role in the regulation of cell differentiation and promotes neurite outgrowth in response to NGF signaling. Plays a role in cell scattering and cell migration in response to HGF-induced activation of EZR. Phosphorylates BCR and down-regulates BCR kinase activity. Phosphorylates HCLS1/HS1, PECAM1, STAT3 and TRIM28. {ECO:0000269|PubMed:11509660, ECO:0000269|PubMed:15302586, ECO:0000269|PubMed:15485904, ECO:0000269|PubMed:16455651, ECO:0000269|PubMed:17595334, ECO:0000269|PubMed:18046454, ECO:0000269|PubMed:19001085, ECO:0000269|PubMed:19051325, ECO:0000269|PubMed:20111072, ECO:0000269|PubMed:2656706, ECO:0000269|PubMed:8955135}.
Molecular Weight:	93.5 kDa
UniProt:	P07332
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Signaling Events mediated by VEGFR1 and VEGFR2

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)