Datasheet for ABIN3134661

FER Protein (AA 1-823) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	FER
Protein Characteristics:	AA 1-823
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FER protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MGFGSDLKNS QEAVLKLQDW ELRLLETVKK FMALRIKSDK EYAYTLQNLC NQVDKESTVQ VNYVSNVSKS WLLMIQQTEQ LSRIMKTHAE DLNSGPLHRL TMMIKDKQQV KKSYVGIHQQ IEAEMIKVTK TELEKLKSSY RQLIKEMNSA KEKYKEALAK GKETEKAKER YDKATMKLHM LHNQYVLALK GAQLHQSQYY DTTLPLLLDS VQKMQEEMIK ALKGIFDDYS QITSLVTEEI VNVHKEIQMS VEQIDPSTEY NNFIDVHRTT AAKEQEIEFD TSLLEENENL QANEIMWNNL TADSLQVMLK TLAEELTQTQ QMLLHKEAAV LELEKRIEES FETCEKKSDI VLLLGQKQAL EELKQSVQQL RCTEAKCAAQ KALLEQKVQE NDGKEPPPVV NYEEDARSVT SMERKERLSK FESIRHSIAG IIKSPKSVLG SSTQVCDVIS VGERPLAEHD WYHGAIPRIE AQELLKQQGD FLVRESHGKP GEYVLSVYSD GQRRHFIIQF VDNLYRFEGT GFSNIPQLID HHFNTKQVIT KKSGVVLLNP IPKDKKWVLN HEDVSLGELL GKGNFGEVYK GTLKDKTPVA IKTCKEDLPQ ELKIKFLQEA KILKQYDHPN IVKLIGVCTQ RQPVYIIMEL VPGGDFLTFL RKRKDELKLK QLVRFSLDVA AGMLYLESKN CIHRDLAARN CLVGENNTLK ISDFGMSRQE DGGVYSSSGL

KQIPIKWTAP EALNYGRYSS ESDVWSFGIL LWETFSLGVC PYPGMTNQQA REQVERGYRM SAPQNCPEEV FTIMMKCWDY KPENRPKFND LHKELTVIKK MIT

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:	FER
Alternative Name:	Fer (FER Products)
Background:	Tyrosine-protein kinase Fer (EC 2.7.10.2) (Proto-oncogene c-Fer) (p94-Fer),FUNCTION: Tyrosine-protein kinase that acts downstream of cell surface receptors for growth factors and plays a role in the regulation of the actin cytoskeleton, microtubule assembly, lamellipodia formation, cell adhesion, cell migration and chemotaxis. Acts downstream of EGFR, KIT, PDGFRA and PDGFRB. Acts downstream of EGFR to promote activation of NF-kappa-B and cell proliferation. May play a role in the regulation of the mitotic cell cycle. Plays a role in the insulin receptor signaling pathway and in activation of phosphatidylinositol 3-kinase. Acts downstream of the activated FCER1 receptor and plays a role in FCER1 (high affinity immunoglobulin epsilon receptor)-mediated signaling in mast cells. Plays a role in the regulation of mast cell degranulation. Plays a role in leukocyte recruitment and diapedesis in response to bacterial lipopolysaccharide (LPS). Phosphorylates CTTN, CTNND1, PTK2/FAK1, GAB1, PECAM1 and PTPN11. May phosphorylate JUP and PTPN1. Can phosphorylate STAT3 according to PubMed:10878010 and PubMed:19159681, but clearly plays a redundant role in STAT3 phosphorylation. According to PubMed:11134346, cells where wild type FER has been replaced by a kinase-dead mutant show no reduction in STAT3 phosphorylation. Phosphorylates TMF1. Isoform 3 lacks kinase activity. {ECO:0000269|PubMed:10878010, ECO:0000269|PubMed:11006284, ECO:0000269|PubMed:11994443, ECO:0000269|PubMed:15226396, ECO:0000269|PubMed:16176974, ECO:0000269|PubMed:16731527, ECO:0000269|PubMed:16732323, ECO:0000269|PubMed:17606629, ECO:0000269|PubMed:19159681, ECO:0000269|PubMed:20133938, ECO:0000269|PubMed:7623846,

Target Details

	ECO:0000269|PubMed:9742951}.
Molecular Weight:	94.6 kDa
UniProt:	P70451

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)

