Datasheet for ABIN3092627

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

Go to Product page

Overview

Quantity:	250 µg
Target:	FER
Protein Characteristics:	AA 1-822
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FER protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MGFGSDLKNS HEAVLKLQDW ELRLLETVKK FMALRIKSDK EYASTLQNLC NQVDKESTVQ MNYVSNVSKS WLLMIQQTEQ LSRIMKTHAE DLNSGPLHRL TMMIKDKQQV KKSYIGVHQQ IEAEMIKVTK TELEKLKCSY RQLIKEMNSA KEKYKEALAK GKETEKAKER YDKATMKLHM LHNQYVLALK GAQLHQNQYY DITLPLLLDS LQKMQEEMIK ALKGIFDEYS QITSLVTEEI VNVHKEIQMS VEQIDPSTEY NNFIDVHRTT AAKEQEIEFD TSLLEENENL QANEIMWNNL TAESLQVMLK TLAEELMQTQ QMLLNKEEAV LELEKRIEES SETCEKKSDI VLLLSQKQAL EELKQSVQQL RCTEAKFSAQ KELLEQKVQE NDGKEPPPVV NYEEDARSVT SMERKERLSK FESIRHSIAG IIRSPKSALG SSALSDMISI SEKPLAEQDW YHGAIPRIEA QELLKKQGDF LVRESHGKPG EYVLSVYSDG QRRHFIIQYV DNMYRFEGTG FSNIPQLIDH HYTTKQVITK KSGVVLLNPI PKDKKWILSH EDVILGELLG KGNFGEVYKG TLKDKTSVAV KTCKEDLPQE LKIKFLQEAK ILKQYDHPNI VKLIGVCTQR QPVYIIMELV SGGDFLTFLR RKKDELKLKQ

	LVKFSLDAAA GMLYLESKNC IHRDLAARNC LVGENNVLKI SDFGMSRQED GGVYSSSGLK QIPIKWTAPE ALNYGRYSSE SDVWSFGILL WETFSLGVCP YPGMTNQQAR EQVERGYRMS APQHCPEDIS KIMMKCWDYK PENRPKFSEL QKELTIIKRK LT **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 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

Product Details

	System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	FER
Alternative Name:	FER (FER Products)
Background:	Tyrosine-protein kinase Fer (EC 2.7.10.2) (Feline encephalitis virus-related kinase FER) (Fujinami poultry sarcoma/Feline sarcoma-related protein Fer) (Proto-oncogene c-Fer) (Tyrosine kinase 3) (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). Plays a role in synapse organization, trafficking of synaptic vesicles, the generation of excitatory postsynaptic currents and neuron-neuron synaptic transmission. Plays a role in neuronal cell death after brain damage. Phosphorylates CTTN, CTNND1, PTK2/FAK1, GAB1, PECAM1 and PTPN11. May phosphorylate JUP and PTPN1. Can phosphorylate STAT3, but the biological relevance of this depends on cell type and stimulus. {ECO:0000269|PubMed:12972546, ECO:0000269|PubMed:14517306, ECO:0000269|PubMed:19147545, ECO:0000269|PubMed:19339212, ECO:0000269|PubMed:19738202, ECO:0000269|PubMed:20111072, ECO:0000269|PubMed:21518868, ECO:0000269|PubMed:22223638, ECO:0000269|PubMed:7623846, ECO:0000269|PubMed:9722593}.
Molecular Weight:	94.6 kDa
UniProt:	P16591

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. 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