Datasheet for ABIN3096317

WHAMM Protein (AA 1-809) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	WHAMM
Protein Characteristics:	AA 1-809
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This WHAMM protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MEDEQPDSLE GWVPVREGLF AEPERHRLRF LVAWNGAEGK FAVTCHDRTA QQRRLREGAR LGPEPEPKPE AAVSPSSWAG LLSAAGLRGA HRQLAALWPP LERCFPRLPP ELDVGGGGAW GLGLGLWALL WPTRAGPGEA ALQELCGQLE RYLGAAADGC GGATVRDALF PAEGGAADCE SPREFRERAL RARWVEADAR LRQVIQGHGK ANTMVALMNV YQEEDEAYQE LVTVATMFFQ YLLQPFRAMR EVATLCKLDI LKSLDEDDLG PRRVVALEKE AEEWTRRAEE AVVSIQDITV NYFKETVKAL AGMQKEMEQD AKRFGQAAWA TAIPRLEKLQ LMLARETLQL MRAKELCLNH KRAEIQGKME DLPEQEKNTN VVDELEIQFY EIQLELYEVK FEILKNEEIL LTTQLDSLKR LIKEKQDEVV YYDPCENPEE LKVIDCVVGL QDDKNLEVKE LRRQCQQLES KRGRICAKRA SLRSRKDQCK ENHRFRLQQA EESIRYSRQH HSIQMKRDKI KEEEQKKKEW INQERQKTLQ RLRSFKDKRL AQSVRNTSGS EPVAPNLPSD LSQQMCLPAS HAVSVIHPSS RKTRGVPLSE AGNVKSPKCQ NCHGNIPVQV FVPVGDQTHS KSSEELSLPP PPPPPPPPPP PPPPPPPLR

	ALSSSSQAAT HQNLGFRAPV KDDQPRPLVC ESPAERPRDS LESFSCPGSM DEVLASLRHG RAPLRKVEVP AVRPPHASIN EHILAAIRQG VKLKKVHPDL GPNPSSKPTS NRRTSDLERS IKAALQRIKR VSADSEEDSD EQDPGQWDG **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:	WHAMM
Alternative Name:	WHAMM (WHAMM Products)
Background:	WASP homolog-associated protein with actin, membranes and microtubules (WAS protein homology region 2 domain-containing protein 1) (WH2 domain-containing protein 1),FUNCTION: Acts as a nucleation-promoting factor (NPF) that stimulates Arp2/3-mediated actin polymerization both at the Golgi apparatus and along tubular membranes. Its activity in membrane tubulation requires F-actin and interaction with microtubules. Proposed to use coordinated actin-nucleating and microtubule-binding activities of distinct WHAMM molecules to drive membrane tubule elongation, when MT-bound can recruit and remodel membrane vesicles but is prevented to activate the Arp2/3 complex. Involved as a regulator of Golgi positioning and morphology. Participates in vesicle transport between the reticulum endoplasmic and the Golgi complex. Required for RhoD-dependent actin reorganization such as in cell adhesion and cell migration. {ECO:0000269|PubMed:18614018, ECO:0000269|PubMed:23027905, ECO:0000269|PubMed:23087206}.
Molecular Weight:	90.9 kDa
UniProt:	Q8TF30

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

Application 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!
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