Datasheet for ABIN3093546

PPFIA1 Protein (AA 1-1202) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	PPFIA1
Protein Characteristics:	AA 1-1202
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PPFIA1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MMCEVMPTIS EAEGPPGGGG GHGSGSPSQP DADSHFEQLM VSMLEERDRL LDTLRETQET LALTQGKLHE VGHERDSLQR QLNTALPQEF AALTKELNVC REQLLEREEE IAELKAERNN TRLLLEHLEC LVSRHERSLR MTVVKRQAQS PAGVSSEVEV LKALKSLFEH HKALDEKVRE RLRVALERCS LLEEELGATH KELMILKEQN NQKKTLTDGV LDINHEQENT PSTSGKRSSD GSLSHEEDLA KVIELQEIIS KQSREQSQMK ERLASLSSHV TELEEDLDTA RKDLIKSEEM NTKLQRDVRE AMAQKEDMEE RITTLEKRYL AAQREATSVH DLNDKLENEI ANKDSMHRQT EDKNRQLQER LELAEQKLQQ TLRKAETLPE VEAELAQRVA ALSKAEERHG NIEERLRQME AQLEEKNQEL QRARQREKMN EEHNKRLSDT VDKLLSESNE RLQLHLKERM AALEDKNSLL REVESAKKQL EETQHDKDQL VLNIEALRAE LDHMRLRGAS LHHGRPHLGS VPDFRFPMAD GHTDSYSTSA VLRRPQKGRL AALRDEPSKV QTLNEQDWER AQQASVLANV AQAFESDADV SDGEDDRDTL LSSVDLLSPS GQADAHTLAM MLQEQLDAIN KEIRLIQEEK ENTEQRAEEI

ESRVGSGSLD NLGRFRSMSS IPPYPASSLA SSSPPGSGRS TPRRIPHSPA REVDRLGVMT LLPPSREEVR DDKTTIKCET SPPSSPRALR LDRLHKGALH TVSHEDIRDI RNSTGSQDGP VSNPSSSNSS QDSLHKAPKK KGIKSSIGRL FGKKEKGRPG QTGKEALGQA GVSETDNSSQ DALGLSKLGG QAEKNRKLQK KHELLEEARR QGLPFAQWDG PTVVVWLELW VGMPAWYVAA CRANVKSGAI MSALSDTEIQ REIGISNPLH RLKLRLAIQE IMSLTSPSAP PTSRTTLAYG DMNHEWIGNE WLPSLGLPQY RSYFMECLVD ARMLDHLTKK DLRGQLKMVD SFHRNSFQCG IMCLRRLNYD RKELERKREE SQSEIKDVLV WSNDRVIRWI LSIGLKEYAN NLIESGVHGA LLALDETFDF SALALLLQIP TQNTQARAVL EREFNNLLVM GTDRRFDEDD DKSFRRAPSW RKKFRPKDIR GLAAGSAETL PANFRVTSSM SSPSMQPKKM QMDGNVSGTQ RLDSATVRTY SC

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!

Product Details

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

Target Details

Target:	PPFIA1
Alternative Name:	PPFIA1 (PPFIA1 Products)
Background:	Liprin-alpha-1 (LAR-interacting protein 1) (LIP-1) (Protein tyrosine phosphatase receptor type f polypeptide-interacting protein alpha-1) (PTPRF-interacting protein alpha-1),FUNCTION: May regulate the disassembly of focal adhesions. May localize receptor-like tyrosine phosphatases type 2A at specific sites on the plasma membrane, possibly regulating their interaction with the extracellular environment and their association with substrates. {ECO:0000269|PubMed:7796809}.
Molecular Weight:	135.8 kDa
UniProt:	Q13136

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