Datasheet for ABIN3094806

PTPN14 Protein (AA 1-1187) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	PTPN14
Protein Characteristics:	AA 1-1187
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTPN14 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MPFGLKLRRT RRYNVLSKNC FVTRIRLLDS NVIECTLSVE STGQECLEAV AQRLELRETH YFGLWFLSKS QQARWVELEK PLKKHLDKFA NEPLLFFGVM FYVPNVSWLQ QEATRYQYYL QVKKDVLEGR LRCTLDQVIR LAGLAVQADF GDYNQFDSQD FLREYVLFPM DLALEEAVLE ELTQKVAQEH KAHSGILPAE AELMYINEVE RLDGFGQEIF PVKDNHGNCV HLGIFFMGIF VRNRIGRQAV IYRWNDMGNI THNKSTILVE LINKEETALF HTDDIENAKY ISRLFATRHK FYKQNKICTE QSNSPPPIRR QPTWSRSSLP RQQPYILPPV HVQCGEHYSE THTSQDSIFH GNEEALYCNS HNSLDLNYLN GTVTNGSVCS VHSVNSLNCS QSFIQASPVS SNLSIPGSDI MRADYIPSHR HSAIIVPSYR PTPDYETVMR QMKRGILHTD SQSQSLRNLN IINTHAYNQP EDLVYSQPEM RERHPYTVPY GPQGVYSNKL VSPSDQRNPK NNVVPSKPGA SAISHTVSTP ELANMQLQGS HNYSTAHMLK NYLFRPPPPY PRPRPATSTP DLASHRHKYV SGSSPDLVTR KVQLSVKTFQ EDSSPVVHQS LQEVSEPLTA TKHHGTVNKR HSLEVMNSMV RGMEAMTLKS

LHLPMARRNT LREQGPPEEG SGSHEVPQLP QYHHKKTFSD ATMLIHSSES EEEEEEAPES VPQIPMLREK MEYSAQLQAA LARIPNKPPP EYPGPRKSVS NGALRQDQAS LPPAMARARV LRHGPAKAIS MSRTDPPAVN GASLGPSISE PDLTSVKERV KKEPVKERPV SEMFSLEDSI IEREMMIRNL EKQKMAGLEA QKRPLMLAAL NGLSVARVSG REENRVDATR VPMDERFRTL KKKLEEGMVF TEYEQIPKKK ANGIFSTAAL PENAERSRIR EVVPYEENRV ELIPTKENNT GYINASHIKV VVGGAEWHYI ATQGPLPHTC HDFWQMVWEQ GVNVIAMVTA EEEGGRTKSH RYWPKLGSKH SSATYGKFKV TTKFRTDSVC YATTGLKVKH LLSGQERTVW HLQYTDWPDH GCPEDVQGFL SYLEEIQSVR RHTNSMLEGT KNRHPPIVVH CSAGVGRTGV LILSELMIYC LEHNEKVEVP MMLRLLREQR MFMIQTIAQY KFVYQVLIQF LQNSRLI

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:	PTPN14
Alternative Name:	PTPN14 (PTPN14 Products)
Background:	Tyrosine-protein phosphatase non-receptor type 14 (EC 3.1.3.48) (Protein-tyrosine phosphatase pez),FUNCTION: Protein tyrosine phosphatase which may play a role in the regulation of lymphangiogenesis, cell-cell adhesion, cell-matrix adhesion, cell migration, cell growth and also regulates TGF-beta gene expression, thereby modulating epithelial-mesenchymal transition. Mediates beta-catenin dephosphorylation at adhesion junctions. Acts as a negative regulator of the oncogenic property of YAP, a downstream target of the hippo pathway, in a cell density-dependent manner. May function as a tumor suppressor. {ECO:0000269|PubMed:10934049, ECO:0000269|PubMed:12808048, ECO:0000269|PubMed:17893246, ECO:0000269|PubMed:20826270, ECO:0000269|PubMed:22233626, ECO:0000269|PubMed:22525271, ECO:0000269|PubMed:22948661}.
Molecular Weight:	135.3 kDa
UniProt:	Q15678

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

Application Details

	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

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