Datasheet for ABIN3094774

NPEPPS Protein (AA 1-919) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	NPEPPS
Protein Characteristics:	AA 1-919
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NPEPPS protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MWLAAAAPSL ARRLLFLGPP PPPLLLLVFS RSSRRRLHSL GLAAMPEKRP FERLPADVSP INYSLCLKPD LLDFTFEGKL EAAAQVRQAT NQIVMNCADI DIITASYAPE GDEEIHATGF NYQNEDEKVT LSFPSTLQTG TGTLKIDFVG ELNDKMKGFY RSKYTTPSGE VRYAAVTQFE ATDARRAFPC WDEPAIKATF DISLVVPKDR VALSNMNVID RKPYPDDENL VEVKFARTPV MSTYLVAFVV GEYDFVETRS KDGVCVRVYT PVGKAEQGKF ALEVAAKTLP FYKDYFNVPY PLPKIDLIAI ADFAAGAMEN WGLVTYRETA LLIDPKNSCS SSRQWVALVV GHELAHQWFG NLVTMEWWTH LWLNEGFASW IEYLCVDHCF PEYDIWTQFV SADYTRAQEL DALDNSHPIE VSVGHPSEVD EIFDAISYSK GASVIRMLHD YIGDKDFKKG MNMYLTKFQQ KNAATEDLWE SLENASGKPI AAVMNTWTKQ MGFPLIYVEA EQVEDDRLLR LSQKKFCAGG SYVGEDCPQW MVPITISTSE DPNQAKLKIL MDKPEMNVVL KNVKPDQWVK LNLGTVGFYR TQYSSAMLES LLPGIRDLSL PPVDRLGLQN DLFSLARAGI ISTVEVLKVM EAFVNEPNYT VWSDLSCNLG

ILSTLLSHTD FYEEIQEFVK DVFSPIGERL GWDPKPGEGH LDALLRGLVL GKLGKAGHKA TLEEARRRFK DHVEGKQILS ADLRSPVYLT VLKHGDGTTL DIMLKLHKQA DMQEEKNRIE RVLGATLLPD LIQKVLTFAL SEEVRPQDTV SVIGGVAGGS KHGRKAAWKF IKDNWEELYN RYQGGFLISR LIKLSVEGFA VDKMAGEVKA FFESHPAPSA ERTIQQCCEN ILLNAAWLKR DAESIHQYLL QRKASPPTV

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.

Product Details

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:	NPEPPS
Alternative Name:	NPEPPS (NPEPPS Products)
Background:	Puromycin-sensitive aminopeptidase (PSA) (EC 3.4.11.14) (Cytosol alanyl aminopeptidase) (AAP-S),FUNCTION: Aminopeptidase with broad substrate specificity for several peptides. Involved in proteolytic events essential for cell growth and viability. May act as regulator of neuropeptide activity. Plays a role in the antigen-processing pathway for MHC class I molecules. Involved in the N-terminal trimming of cytotoxic T-cell epitope precursors. Digests the poly-Q peptides found in many cellular proteins. Digests tau from normal brain more efficiently than tau from Alzheimer disease brain. {ECO:0000269|PubMed:10978616, ECO:0000269|PubMed:11062501, ECO:0000269|PubMed:17154549, ECO:0000269|PubMed:17318184, ECO:0000269|PubMed:19917696}.
Molecular Weight:	103.3 kDa
UniProt:	P55786

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

Application Details

	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