

Datasheet for ABIN3118950

LNPEP Protein (AA 1-1025) (Strep Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	LNPEP
Protein Characteristics:	AA 1-1025
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LNPEP protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MEPFTNDRLQ LPRNMIENSM FEEEPDVVDL AKEPCLHPLE PDEVEYEPRG SRLLVRGLGE HEMEEDEEDY ESSAKLLGMS FMNRSSGLRN SATGYRQSPD GACSVPSART MIVCAFVIVV AVSVIMVIYL LPRCTFTKEG CHKKNQSIGL IQPFATNGKL FPWAQIRLPT AVVPLRYELS LHPNLTSMTF RGSVTISVQA LQVTWNIILH STGHNISRVF FMSAVSSQEK QAEILEYAYH GQIAIVAPEA LLAGHNYTLK IEYSANISSS YYGFYGFSTY DESNEKKYFA ATQFEPLAAR SAFPCFDEPA FKATFIKII RDEQYTALSN MPKKSSVVDL DGLVQDEFSE SVKMSTYLVA FIVGEMKNLS QDVNGTLVSI YAVPEKIGQV HYALETTVKL LEFFQNYFEI QYPLKKLDLV AIPDFEAGAM ENWGLLTFRE ETLLYDSNTS SMADRKLVTI IIAHELAHQW FGNLVTMKWW NDLWLNFGFA TFMEYFSLEK IFKELSSYED FLDARFKTMK KDSLNSHPI SSSVQSSEKI EEMFDSLSYF KGSSLLMLK TYLSEDFVQH AVVLYLHNHS YASIQSDDLW DSFNEVTNQT LDVKRMMKTW TLQKGFPLVT VQKKGKELFI QQERFFLNMK PEIQSDTSY LWHIPLSYVT EGRNYSKYQS VSLDDKKSGV INLTEEVLWV KVNINMNGYY IVHYADDDWE ALIHQLKINP
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YVLSDKDRAN LINNIFELAG LGKVPLKRAF DLINYLGNN HTAPITEALF QTDLIYNLLE
KLG YMDLASR LVTRVFKLLQ NQIQQTWTD EGTPSMREL R SALLEFACTH NLGNCSTTAM
KLFDDWMASN GTQSLPTDVM TTVFKVGAKT DKGWSFLLGK YISIGSEAEK NKILEALASS
EDVRKLYWLM KSSLNGDNFR TQKLSFIIRT VGRHFPGHLL AWDFVKENWN KLVQKFPLGS
YTIQNIVAGS TYLFSTKTHL SEVQAFFENQ SEATFRLRCV QEALEVIQLN IQWMEKNLKS LTWWL

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its

Product Details

- specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALICE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	LNPEP
Alternative Name:	LNPEP (LNPEP Products)
Background:	Leucyl-cystinyl aminopeptidase (Cystinyl aminopeptidase) (EC 3.4.11.3) (Insulin-regulated membrane aminopeptidase) (Insulin-responsive aminopeptidase) (IRAP) (Oxytocinase) (OTase) (Placental leucine aminopeptidase) (P-LAP) [Cleaved into: Leucyl-cystinyl aminopeptidase, pregnancy serum form],FUNCTION: Release of an N-terminal amino acid, cleaves before cysteine, leucine as well as other amino acids. Degrades peptide hormones such as oxytocin, vasopressin and angiotensin III, and plays a role in maintaining homeostasis during pregnancy. May be involved in the inactivation of neuronal peptides in the brain. Cleaves Met-enkephalin and dynorphin. Binds angiotensin IV and may be the angiotensin IV receptor in the brain. {ECO:0000269 PubMed:11389728, ECO:0000269 PubMed:11707427, ECO:0000269 PubMed:1731608}.
Molecular Weight:	117.3 kDa
UniProt:	Q9UIQ6
Pathways:	Regulation of long-term Neuronal Synaptic Plasticity

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.
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Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process