

Datasheet for ABIN3125603
PREPL Protein (AA 1-725) (Strep Tag)



[Go to Product page](#)

Overview

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| Quantity: | 1 mg |
| Target: | PREPL |
| Protein Characteristics: | AA 1-725 |
| Origin: | Mouse |
| Source: | Tobacco (<i>Nicotiana tabacum</i>) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This PREPL protein is labelled with Strep Tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS) |

Product Details

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| Sequence: | MLQTAKFSLR ALKHSIPHLG NCMQKQSYRN VAGPYYSRVR LKKYHLTKCL QNKPRIAGLA RNIPSRSFSC KDLLPIKPES EKPISENMDA FEKVRTRLET QPQEYEVVN AEIKHGGFVY YQEGCCLVRS KDEEADSDNY EVLFNLEELK LDQPFIDCIR VAPDEKYVAA KIRTEDSETS TLVVVKLSDQ PVMEASFPNV SSFEWVKDEE DEDVLFYTFQ RNLRCHDVYR ATFGDNKRNE RFYTEKDPSY FVFLYLTKDS RFLTLNIMNK TTSEVWLIDG LSPWDPPVLI QKRIHGMLYY VEHRDDELYI LTNVGEPTF KLMRTAADAP AIMNWDLFFT MKRNTKVVDL DMFKDHCVLF LKHSNLLYVN VIGLADDSVR SLKLPPWACG FIMDTNSDPK NCPFQLCSPI RPPKYTYKF AEGKLFEEG HEDPITKTSR VLRIEAKSKD GKLVPMTVFH KTDSEDLQRK PLLVHVYGY GMDLKMNFRP EKRVLVDDGW ILAYCHVRGG GELGLQWHAD GRLTKKLNGL ADLVACIKTL HSQFSQPSL TTLSAFSAGG VLVGALCNSK PELLRAVTLE APFLDVLNTM LDTTLPLTLE ELEEWGNPSS DEKHKNYIKR YCPCQNIKPQ HYPVSVHITAY ENDERVPLKG IVNYTEKLKE AVAEHTKGAG EGYQPPNIIL DIQPGGNHVI EDSHKKITTQ MKFLYEELGL DSTDAFEALK KYLKF |
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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 System (ALiCE®).

Purity:

> 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Target Details

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| Target: | PREPL |
| Alternative Name: | Prepl (PREPL Products) |
| Background: | Prolyl endopeptidase-like (EC 3.4.21.-) (Prolylendopeptidase-like),FUNCTION: Serine peptidase whose precise substrate specificity remains unclear (PubMed:21692504). Does not cleave peptides after a arginine or lysine residue (By similarity). Regulates trans-Golgi network morphology and sorting by regulating the membrane binding of the AP-1 complex (PubMed:23321636). May play a role in the regulation of synaptic vesicle exocytosis (By similarity). {ECO:0000250 UniProtKB:Q4J6C6, ECO:0000269 PubMed:21692504, ECO:0000269 PubMed:23321636}. |
| Molecular Weight: | 83.2 kDa |
| UniProt: | Q8C167 |

Application Details

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| 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: | <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> |
| Restrictions: | For Research Use only |

Handling

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| Format: | Liquid |
| Buffer: | The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us. |

Handling

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)