

Datasheet for ABIN3096263

USPL1 Protein (AA 1-1092) (Strep Tag)



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1 Image

Overview

Quantity:	1 mg
Target:	USPL1
Protein Characteristics:	AA 1-1092
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This USPL1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MMDSPKIGNG LPVIGPGTDI GISSLHMVG Y LGKNFDSA KV PSDEYCPACR EKGK LKALKT
YRISFQESIF LCEDLQCIYP LGSKSLNNLI SPDLEECHTP HKPQKRKSLE SSYKDSL LLA
NSKKTRNYIA IDGGKVLNSK HNGEVYDETS SNLPDSSGQQ NPIRTADSLE RNEILEADTV
DMATTKDPAT VDVS GTGRPS PQNEGCTSKL EMPLESKCTS FPQALCVQWK NAYALCWLD C
ILSALVHSEE LKNTVTGLCS KEESIFWRL TTKYNQANTLL YTSQ LSGVKD GDCKKLTSEI
FAEIETCLNE VRDEIFISLQ PQLRCTLGDM ESPVFAFPLL LKLETHIEKL FLYSFSWDFE
CSQCGHQYQN RHMKSLVTFT NUIPEWHPLN AAHFGPCNNC NSKSQIRK MV LEKVSPIFML
HFVEGLPQND LQHYAFHFEG CLYQITSVIQ YRANNHFITW ILDADGSWLE CDDLKGPCSE
RHKKFEVPAS EIHIWIWERK ISQVTDKEAA CLPLKKTNDQ HALSNEKPV S LTSCSVGDAA
SAETASVTHP KDISVAPRTL SQDTAVTHGD HLLSGPKGLV DNILPL TLEE TIQKTASVSQ
LNSEAF LLEN KPVAENTGIL KTN TLLSQES LMASSVSAPC NEKLIQDQFV DISFPSQV V N
TNMQSVQLNT EDTVNTKSVN NTDATGLIQG VKSVEIEKDA QLKQFLTPKT EQLKPERVTS

QVSNLKKKET TADSQTTTTSK SLQNQSLKEN QKKPFVGSWV KGLISRGASF MPLCVSAHNR
NTITDLQPSV KGVNNFGGFK TKGINQKASH VSKKARKSAS KPPPISKPPA GPPSSNGTAA
HPHAHAASEV LEKSGSTSCG AQLNHSSYGN GISSANHEDL VEGQIHKLRL KLRKKLKAEK
KKLAALMSSP QSRTVRSENL EQVPQDGSNP DCESIEDLLN ELPYPIDIAS ESACTTVPGV
SLYSSQTHEE ILAELLSPTP VSTELSENGE GDFRYLGMGD SHIPPPVPSE FNDVSQNTHL
RQDHNYCSPT KKNPCEVQPD SLTNNACVRT LNLESPMKTD IFDEFFSSSA LNALANDTLD
LPHFDEYLFE NY

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:

Product Details

- 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 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:	USPL1
Alternative Name:	USPL1 (USPL1 Products)
Background:	SUMO-specific isopeptidase USPL1 (EC 3.4.22.-) (Ubiquitin-specific peptidase-like protein 1) (USP-like 1),FUNCTION: SUMO-specific isopeptidase involved in protein desumoylation. Specifically binds SUMO proteins with a higher affinity for SUMO2 and SUMO3 which it cleaves more efficiently. Also able to process full-length SUMO proteins to their mature forms (PubMed:22878415). Plays a key role in RNA polymerase-II-mediated snRNA transcription in the Cajal bodies (PubMed:24413172). Is a component of complexes that can bind to U snRNA genes (PubMed:24413172). {ECO:0000269 PubMed:22878415, ECO:0000269 PubMed:24413172}.
Molecular Weight:	120.4 kDa
UniProt:	Q5W0Q7

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
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Application Details

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 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. 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