Datasheet for ABIN3091945

CTDP1 Protein (AA 1-961) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	CTDP1
Protein Characteristics:	AA 1-961
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CTDP1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MEVPAAGRVP AEGAPTAAVA EVRCPGPAPL RLLEWRVAAG AAVRIGSVLA VFEAAASAQS SGASQSRVAS GGCVRPARPE RRLRSERAGV VRELCAQPGQ VVAPGAVLVR LEGCSHPVVM KGLCAECGQD LTQLQSKNGK QQVPLSTATV SMVHSVPELM VSSEQAEQLG REDQQRLHRN RKLVLMVDLD QTLIHTTEQH CQQMSNKGIF HFQLGRGEPM LHTRLRPHCK DFLEKIAKLY ELHVFTFGSR LYAHTIAGFL DPEKKLFSHR ILSRDECIDP FSKTGNLRNL FPCGDSMVCI IDDREDVWKF APNLITVKKY VYFQGTGDMN APPGSRESQT RKKVNHSRGT EVSEPSPPVR DPEGVTQAPG VEPSNGLEKP ARELNGSEAA TPRDSPRPGK PDERDIWPPA QAPTSSQELA GAPEPQGSCA QGGRVAPGQR PAQGATGTDL DFDLSSDSES SSESEGTKSS SSASDGESEG KRGRQKPKAA PEGAGALAQG SSLEPGRPAA PSLPGEAEPG AHAPDKEPEL GGQEEGERDG LCGLGNGCAD RKEAETESQN SELSGVTAGE SLDQSMEEEE EEDTDEDDHL IYLEEILVRV HTDYYAKYDR YLNKEIEEAP DIRKIVPELK SKVLADVAII FSGLHPTNFP IEKTREHYHA

TALGAKILTR LVLSPDAPDR ATHLIAARAG TEKVLQAQEC GHLHVVNPDW LWSCLERWDK VEEQLFPLRD DHTKAQRENS PAAFPDREGV PPTALFHPMP VLPKAQPGPE VRIYDSNTGK LIRTGARGPP APSSSLPIRQ EPSSFRAVPP PQPQMFGEEL PDAQDGEQPG PSRRKRQPSM SETMPLYTLC KEDLESMDKE VDDILGEGSD DSDSEKRRPE EQEEEPQPRK PGTRRERTLG APASSERSAA GGRGPRGHKR KLNEEDAASE SSRESSNEDE GSSSEADEMA KALEAELNDL M

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:	CTDP1
Alternative Name:	CTDP1 (CTDP1 Products)
Background:	RNA polymerase II subunit A C-terminal domain phosphatase (EC 3.1.3.16) (TFIIF-associating CTD phosphatase),FUNCTION: Processively dephosphorylates 'Ser-2' and 'Ser-5' of the heptad repeats YSPTSPS in the C-terminal domain of the largest RNA polymerase II subunit. This promotes the activity of RNA polymerase II. Plays a role in the exit from mitosis by dephosphorylating crucial mitotic substrates (USP44, CDC20 and WEE1) that are required for M-phase-promoting factor (MPF)/CDK1 inactivation. {ECO:0000269|PubMed:22692537}.
Molecular Weight:	104.4 kDa
UniProt:	Q9Y5B0

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 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!

Application Details

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