

Datasheet for ABIN3126788

CDT1 Protein (AA 1-557) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	CDT1
Protein Characteristics:	AA 1-557
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CDT1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MAQSRVTDFY ACRRPGLTTP RAKSICLTPS PGGLVAPAFT RSSSRKRARP PAEPGSDQPA PLARRRLRLP GLDSCPSSLP EPSSPAEPS PADPSPPADP GSPVCPSPVK RTKSTTVYVG QQPGKIPSED SVSELQSLR RARKLGAQAR ALRARVQENA VEPSTPDAKV PTEQPCVEKA PAYQRFHALA QPGLPGLVLP YKYQVLVEMF RSMDTIVSML HNRSETVTFA KVKQGVQEMM RKRFEERNVG QIKTVYPTSY RFRQECNVPT FKDSIKRSDY QLTIEPLLQ EAGGATQLTA TCLLQRRQVF RQNLVERVKE QHKVFLASLN PPMVAPDDQL TRWHPRFNVD EVPDIEPAEL PQPPVTEKLT TAQEVRLAR SLMTPKMEKA LSNLALRSAE PGSPGTSTPP LPATPPATPP AASPSALKGV SQALLERIRA KEVQKQLARM TRCPEQELRL QRLERLPELA RVLNRNVFVSE RKPALTMENV CARMVDSCQT ALSPGEMEKH LVLLAELLPD WLSLHRIKTD TYVKLDAVD LAGLTARLAH HVHAEG</p>

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:

> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade:

custom-made

Target Details

Target:	CDT1
Alternative Name:	Cdt1 (CDT1 Products)
Background:	DNA replication factor Cdt1 (Double parked homolog) (DUP) (Retroviral insertion site 2 protein),FUNCTION: Required for both DNA replication and mitosis. DNA replication licensing factor, required for pre-replication complex assembly. Cooperates with CDC6 and the origin recognition complex (ORC) during G1 phase of the cell cycle to promote the loading of the mini-chromosome maintenance (MCM) complex onto DNA to generate pre-replication complexes (pre-RC). Required also for mitosis by promoting stable kinetochore-microtubule attachments (By similarity). Potential oncogene (PubMed:11850834). {ECO:0000250 UniProtKB:Q9H211, ECO:0000269 PubMed:11850834, ECO:0000269 PubMed:12192004, ECO:0000269 PubMed:14993212}.
Molecular Weight:	61.5 kDa
UniProt:	Q8R4E9
Pathways:	MAPK Signaling , Mitotic G1-G1/S Phases , DNA Replication , Synthesis of DNA

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:	<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

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