

Datasheet for ABIN3086832 CTP Synthase Protein (CTPS) (AA 1-591) (Strep Tag)



Overview

Quantity:	250 µg
Target:	CTP Synthase (CTPS)
Protein Characteristics:	AA 1-591
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CTP Synthase protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MKYILVTGGV ISGIGKGIIA SSVGTILKSC GLHVTSIKID PYINIDAGTF SPYEHGEVFV
	LDDGGEVDLD LGNYERFLDI RLTKDNNLTT GKIYQYVINK ERKGDYLGKT VQVVPHITDA
	IQEWVMRQAL IPVDEDGLEP QVCVIELGGT VGDIESMPFI EAFRQFQFKV KRENFCNIHV
	SLVPQPSSTG EQKTKPTQNS VRELRGLGLS PDLVVCRCSN PLDTSVKEKI SMFCHVEPEQ
	VICVHDVSSI YRVPLLLEEQ GVVDYFLRRL DLPIERQPRK MLMKWKEMAD RYDRLLETCS
	IALVGKYTKF SDSYASVIKA LEHSALAINH KLEIKYIDSA DLEPITSQEE PVRYHEAWQK
	LCSAHGVLVP GGFGVRGTEG KIQAIAWARN QKKPFLGVCL GMQLAVVEFS RNVLGWQDAN
	STEFDPTTSH PVVVDMPEHN PGQMGGTMRL GKRRTLFQTK NSVMRKLYGD ADYLEERHRH
	RFEVNPVWKK CLEEQGLKFV GQDVEGERME IVELEDHPFF VGVQYHPEFL SRPIKPSPPY
	FGLLLASVGR LSHYLQKGCR LSPRDTYSDR SGSSSPDSEI TELKFPSINH D
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression

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	system, a different complexity of the protein could make another tag necessary. In case yo
	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 fo 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:

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custom-made

Target Details	
Target:	CTP Synthase (CTPS)
Alternative Name:	CTPS1 (CTPS Products)
Background:	CTP synthase 1 (EC 6.3.4.2) (CTP synthetase 1) (UTPammonia ligase 1),FUNCTION: This enzyme is involved in the de novo synthesis of CTP, a precursor of DNA, RNA and phospholipids. Catalyzes the ATP-dependent amination of UTP to CTP with either L-glutamine or ammonia as a source of nitrogen. This enzyme and its product, CTP, play a crucial role in the proliferation of activated lymphocytes and therefore in immunity. {ECO:0000269 PubMed:16179339, ECO:0000269 PubMed:24870241}.
Molecular Weight:	66.7 kDa
UniProt:	P17812
Pathways:	Proton Transport, Ribonucleoside Biosynthetic Process
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!
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.

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Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months