

Datasheet for ABIN7556737

CTP Synthase Protein (CTPS) (AA 1-591) (His tag)



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Overview

Quantity:	1 mg
Target:	CTP Synthase (CTPS)
Protein Characteristics:	AA 1-591
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CTP Synthase protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Ctps1 Protein expressed in mammalian cells.
Sequence:	<p> MKYILVTGGV ISGIGKGVIA SSVGTLKSC GLHVTSIKID PYINIDAGTF SPYEHGEVFFV LDDGGEVDLD LGNYERFLDI RLTKDNNLTT GKIYQYVINK ERKGDYLGKT VQVVPHTDA IQEWMRQAL IPVDEDEGLEP QVCVIELGGT VGDIESMPFI EAFRQFQFKV KRENFCNIHV SLVPQPSSTG EQKTKPTQNS VRELRLGLSL PDLVVCRCNS PLDTSVKEKI SMFCHVEPEQ VICVHDVSSI YRVPLLEEQ GVVDYFLRRL DLPYERQSRK MLMKWKEMAD RYDRLLTCS IALVGKYTKF SDSYASVIKA LEHSALAINH KLEIKYIDST DLEPSTLQEE PVRYHEAWQK LCSAHGVLVP GGFGVRGTEG KIQAIWARK QKKPFLGVCL GMQLAVVEFS RNVLGWQDAN STEFDPKTSH PVVIDMPEHN PGQMGGTMRL GKRRTLFQTK NSVMRKLYGD TDYLEERHRH RFEVNPVLKK CLEEGLKFV QGDVEGERME IVELEDHPFF VGVQYHPEFL SRPIKSPPY FGLLLASVGR LPHYLQKGR LSPRDTYSR SGSSSPDSEI TELKFPSISQ D </p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a</p>

special request, please contact us.

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: 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) (UTP--ammonia 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:0000250|UniProtKB:P17812}.

Molecular Weight: 66.7 kDa

UniProt: [P70698](#)

Pathways: [Proton Transport](#), [Ribonucleoside Biosynthetic Process](#)

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months