

Datasheet for ABIN3091787

## Cmah Protein (AA 1-501) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	Cmah (CMAHP)
Protein Characteristics:	AA 1-501
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Cmah protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p>MDENNGLLLL ELNPPNPWDL QPRSPEELAF GEVQITYLTH ACMDLKLGDGK RMVFDPWLIG  PAFARGWWLL HEPPSDWLER LCQADLIYIS HLHSDHLSYP TLKKLAGRRP DIPIYVGNT  RPVFWNLNQS GVQLTNINVV PFGIWQQVDK NLRFMILMDG VHPEMDTCII VEYKGHKILN  IVDCTRPNNG RLPMKVALMM SDFAGGASGF PMTFSGGKFT EEWKAQFIKT ERKKLLNYKA  RLVKNLQPRI YCPFAGYFVE SHPSDKYIKE TNTKNDPNEL NNLIKKNSDV ITWTPRPGAT  LDLGRMLKDR TDSKGIEPP EGTKIYKDSW DFEPYLEILN AALGDEIFLH SSWIKEYFTW  AGFKDYNLVV RMIETDEDFN PFPGGYDYLVD FLDLSPKE RPQREHPYEE IHSRVDVIRH  VVKNGLLWDE LYIGFQTRLQ RDPDIYHHLF WNHFQIKLPL TPNWKSFLM CCEQNGPVIL  QFSTERTNEP NRNKFSEVENK A</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.**

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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.

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Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

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Purity:

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

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Grade:

custom-made

## Target Details

Target:	Cmah (CMAHP)
Alternative Name:	CMAHP ( <a href="#">CMAHP Products</a> )
Background:	Inactive cytidine monophosphate-N-acetylneuraminic acid hydroxylase (CMP-NeuAc hydroxylase-like protein) (Cytidine monophosphate-N-acetylneuraminic acid hydroxylase pseudogene),FUNCTION: Sialic acids are components of carbohydrate chains of glycoconjugates and are involved in cell-cell recognition and cell-pathogen interactions. That protein has no CMP-N-acetylneuraminate monooxygenase activity and is not able to convert CMP-N-acetylneuraminic acid (CMP-Neu5Ac) into its hydroxylated derivative CMP-N-glycolylneuraminic acid (CMP-Neu5Gc), a sialic acid abundantly expressed at the surface of many cells in vertebrates (PubMed:9624188). However, it may play a role in Wnt signaling (PubMed:19890979). {ECO:0000269 PubMed:19890979, ECO:0000269 PubMed:9624188, ECO:0000303 PubMed:11562455, ECO:0000303 PubMed:12192086, ECO:0000303 PubMed:9751737}.
Molecular Weight:	58.4 kDa
UniProt:	<a href="#">Q9Y471</a>

## 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

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Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months