

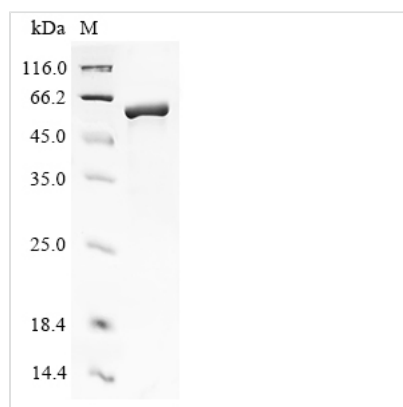


# Recombinant Human Inactive cytidine monophosphate-N-acetylneuraminic acid hydroxylase (CMAHP)

<b>Product Code</b>	CSB-EP897550HU
<b>Abbreviation</b>	Recombinant Human CMAHP protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q9Y471
<b>Form</b>	Liquid or Lyophilized powder
<b>Storage Buffer</b>	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MDENNGLLLLLELNPPNPWDLQPRSPHEELAFGEVQITYLTHACMDLKLGDKRM VFDPWLIGPAFARGWWLLHEPPSDWLERLCQADLIYISHLHSDHLSYPTLKKL AGRRPDIPYVGNTERPWFVWNLNQSGVQLTNINVVPFGIWQQVDKNLRFMILM DGVHPEMDTCIIVEYKGHKILNIVDCTRPNGGRLPMKVALMMSDFAGGASGFP MTFSGGKFTEEWKAQFIKTERKKLLNYKARLVKNLQPRIYCPFAGYFVESHP DKYIKETNTKNDPNELNNLIKKNSDVITWTPRPGATLDLGRMLKDRTDSKGIIEP PEGTKIYKDSWDFEPYLEILNAALGDEIFLHSSWIKEYFTWAGFKDYNLVVRMI ETDEDFNPFPGGYDYLVDLFLSFPKERPQREHPYEEIHSRVDVIRHVVKNG LWDELYIGFQTRLQRDPDIYHHLFWNHFQIKLPLTPPNWKSFLMCCEQNGPVI LQFSTERTNEPNRNKFSVENKA
<b>Research Area</b>	Others
<b>Source</b>	E.coli
<b>Target Names</b>	CMAHP
<b>Expression Region</b>	1-501aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 10xHis-tagged and C-terminal Myc-tagged
<b>Mol. Weight</b>	63.4 kDa
<b>Protein Length</b>	Full Length



## Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## Description

To express the recombinant human inactive cytidine monophosphate-N-acetylneuraminic acid hydroxylase (CMAHP) in *E. coli*, the gene fragment encoding the full-length human CMAHP protein (amino acids 1-501) and an N-terminal 10xHis-tag and C-terminal Myc-tag is cloned into a suitable expression vector. The cloning process involves ligating the gene fragment into the vector downstream of the appropriate promoter and regulatory elements. The resulting expression construct is then transformed into *E. coli* host cells using a transformation method. The transformed cells are selected to ensure the presence of the recombinant plasmid. Subsequently, a large-scale culture of the transformed *E. coli* cells is established in a growth medium under optimal conditions for protein expression. The N-terminal 10xHis-tag and C-terminal Myc-tag allow for convenient purification and detection of the recombinant CMAHP protein. The recombinant CMAHP protein can be extracted and purified from the cell lysate. The purity of the recombinant human CMAHP protein is assessed through SDS-PAGE analysis, reaching up to 90%. It migrates onto a band of 64 kDa molecular weight on the gel.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

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