

Putative cytidine monophosphate-N-acetylneuraminic acid hydroxylase-like protein (CMAHP) Recombinant Protein | CMAHP recombinant protein

Recombinant Human Putative cytidine monophosphate-N-acetylneuraminic acid hydroxylase-like protein (CMAHP)

CATALOG # AAA116798	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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PRODUCT SYNONYMS

Putative cytidine monophosphate-N-acetylneuraminic acid hydroxylase-like protein (CMAHP); Recombinant Human Putative cytidine monophosphate-N-acetylneuraminic acid hydroxylase-like protein (CMAHP); CMAHP recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-501aa; Full Length
Sequence	MDENNGLLLL ELNPPNPWDL QPRSPEELAF GEVQITYLTH ACMDLKLGDK RMVFDPLWIG PAFARGWWLL HEPPSDWLER LCQADLIYIS HLHSDHLSYP TLKLAGRRP DIPIYVGNT E RPVFWNLNQS GVQLTNINVV PFGIWQQVDK NLRFMILMDG VHPMDTCII VEYKGHKILN IVDCTRPNGG RLPKMVALMM SDFAGGASGF PMTFSGGKFT EEWKAQFIKT ERKKLLNYKA RLVKNLQPRI YCPFAGYFVE SHPSDKYIKE TNTKNDPNEL NNLIKKNSDV ITWTPRPGAT LDLGRMLKDR TDSKGII EPP EGTKIYKDSW DFEPYLEILN AALGDEIFLH SSWIKEYFTW AGFKDYNLVV RMIETDEDFN PFPGGYDYL V DFLDLSFPKE RPQREHPYEE IHSRVDVIRH VVKNGLLWDE LYIGFQTRLQ RDPDIYHHLF WNHFQIKLPL TPNWKSFLM CCEQNGPVIL QFSTERTNEP NRNKFSVENK A
Sequence Length	72
Species	Human
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

ADDITIONAL INFORMATION

Related Product Information for CMAHP recombinant protein	Sialic acids are terminal components of the carbohydrate chains of glycoconjugates involved in ligand-receptor, cell-cell, and cell-pathogen interactions. The two most common forms of sialic acid found in mammalian cells are N-acetylneuraminic acid (Neu5Ac) and its hydroxylated derivative, N-glycolylneuraminic acid (Neu5Gc). Studies of sialic acid distribution show that Neu5Gc is not detectable in normal human tissues although it was an abundant sialic acid in other mammals. Neu5Gc is, in actuality, immunogenic in humans. The absence of Neu5Gc in humans is due to a deletion within the human gene CMAH encoding cytidine monophosphate-N-acetylneuraminic acid hydroxylase, an enzyme responsible for Neu5Gc biosynthesis. Sequences encoding the mouse, pig, and chimpanzee hydroxylase enzymes were obtained by cDNA cloning and found to be highly homologous. However, the homologous human cDNA differs from these cDNAs by a 92-bp deletion in the 5' region. This deletion, corresponding to exon 6 of the mouse hydroxylase gene, causes a frameshift mutation and premature termination of the polypeptide chain in human. It seems unlikely that the truncated human hydroxylase mRNA encodes for an active enzyme explaining why Neu5Gc is undetectable in normal human tissues. Human genomic DNA also shows evidence of this deletion which does not occur in the genomes of African great apes. Nonetheless, the CMAH gene maps to 6p21.32 in humans and great apes indicating that mutation of the CMAH gene occurred following human divergence from chimpanzees and bonobos.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	816380040
NCBI GeneID	8418
UniProt Accession #	Q9Y471; O95250; Q5TD41; Q5TD42; Q5TD43; Q5TD44; Q68DC3; Q9UEE7; C1K3L2
Molecular Weight	56,564 Da
NCBI Official Full Name	Inactive cytidine monophosphate-N-acetylneuraminic acid hydroxylase
NCBI Official Synonym Full Names	cytidine monophospho-N-acetylneuraminic acid hydroxylase, pseudogene
NCBI Official Symbol	CMAHP
NCBI Official Synonym Symbols	CMAH; CSAH
UniProt Protein Name	Inactive cytidine monophosphate-N-acetylneuraminic acid hydroxylase
UniProt Gene Name	CMAHP
UniProt Synonym Gene Names	CMAH; CMP-NeuAc hydroxylase-like protein

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/cmahp-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/116798>