Cytidine Monophosphate-N-Acetylneuraminic Acid Hydroxylase (CMAH) Pig Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cytidine monophosphate-N-acetylneuraminic acid hydroxylase (CMAH), Recombinant Protein
Full Product Name	Recombinant Pig Cytidine monophosphate-N-acetylneuraminic acid hydroxylase
Product Gene Name	CMAH recombinant protein
Sequence	THACMDLKLG DKRMVFDPWL IGPAFARGWW LLHEPPSDWL ERLSRADLIY ISHMHSDHLS YPTLKKLAER RPDVPIYVGN TERPVFWNLN QSGVQLTNIN VVPFGIWQQV DKNLRFMILM DGVHPEMDTC IIVEYKGHKI LNTVDCTRPN GGRLPMKVAL MMSDFAGGAS GFPMTFSGGK FTEEWKAQFI KTERKKLLNY KARLVKDLQP RIYCPFPGYF VESHPADKYI KETNIKNDPN ELNNLIKKNS EVVTWTPRPG ATLDLGRMLK DPTDSKGIVE PPEGTKIYKD SWDFGPYLNI LNAAIGDEIF RHSSWIKEYF TWAGFKDYNL VVRMIETDED FSPLPGGYDY LVDFLDLSFP KERPSREHPY EEIRSRVDVI RHVVKNGLLW DDLYIGFQTR LQRDPDIYHH LFWNHFQIKL PLTPPDWKSF LMCSG
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
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.
Molecular Weight	50,628 Da
Sequence Positions	1-435, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for O19074
Species	Sus scrofa (Pig)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CMAH recombinant protein	MBS1127721 is a recombinant protein targeting CMAH. Also known as Recombinant Pig Cytidine monophosphate-N-acetylneuraminic acid hydroxylase. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of CMAH recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CMAH. It may not necessarily be applicable to this product.

NCBI GI #	73918051
NCBI GeneID	396918
NCBI Accession #	O19074.1
UniProt Primary Accession #	O19074

UniProt Related Accession #	O19074
NCBI Official Full Name	Cytidine monophosphate-N-acetylneuraminic acid hydroxylase
NCBI Official Symbol	CMAH
UniProt Protein Name	Cytidine monophosphate-N-acetylneuraminic acid hydroxylase
UniProt Synonym Protein Names	CMP-N-acetylneuraminate monooxygenase; CMP-Neu5Ac hydroxylase; CMP-NeuAc hydroxylase
Protein Family	Cytidine monophosphate-N-acetylneuraminic acid hydroxylase
UniProt Gene Name	CMP-N-acetylneuraminic acid hydroxylase
UniProt Synonym Gene Names	CMP-N-acetylneuraminic acid hydroxylase
NCBI Protein Information	cytidine monophosphate-N-acetylneuraminic acid hydroxylase
UniProt Comments for CMAH	Sialic acids are components of carbohydrate chains of glycoconjugates and are involved in cell-cell recognition and cell-pathogen interactions. Catalyzes the conversion of 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.
Research Articles on CMAH	**1.** Silencing the GGTA1, CMAH and B4GalNT2 genes in pigs achieved a significant antigen reduction. Changing the porcine carbohydrate profile effectively mediates human antibody-mediated complement dependent cytoxicity.
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