N-Acetylneuraminate Epimerase (nanM) Vibrio Cholerae Serotype O1 Recombinant Protein

PRODUCT OVERVIEW

Product Name	N-acetylneuraminate epimerase (nanM), Recombinant Protein
Full Product Name	Recombinant Vibrio cholerae serotype O1 N-acetylneuraminate epimerase (nanM)
Product Gene Name	nanM recombinant protein
Sequence	DNQWPDLPTG FKDGVGAQVG SKVYVGLGSL GKSFYVLDLN ALSKGWQKIA DFTGAERSGA TASVIGNYIY LFGGSGKAEP SDPSPILFDS VYRYDTKKDS WEKMNTTSPV GLLGASSYSP DNRQILFFGG YNKAYFDRYL RDISTTDKQV NPEVWQRIVD DYMGMTPTDY KWNRNVISYL PEKQEWRDLG VSTYLPNCGS ATVIEGNKVT LISGEIKPGL RTAEVKQYEF GMDQPWKSLL PLPAPQTSNI QEGVAGAFSG KTNGVVVVAG GANFHGAKQA FENGKMFAHE GLPKAFNSEI YVEKEGIWST VNSLPEGLAY GASFTTSEGV LIVGGEKSGK EMSHKVYMLA WNGSTVEVID
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	41,944 Da
Sequence Positions	25-384, Full length
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 A5F7B3
Species	Vibrio cholerae serotype O1 (strain 39541 / Ogawa 395 / O395)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for nanM recombinant protein	MBS1162634 is a recombinant protein targeting nanM. Also known as Recombinant Vibrio cholerae serotype O1 N-acetylneuraminate epimerase (nanM). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of nanM 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 nanM. It may not necessarily be applicable to this product.

NCBI GI #	446979292
NCBI Accession #	WP_001056548.1
UniProt Primary Accession #	A5F7B3
UniProt Secondary Accession #	C3M1G8
GenBank Nucleotide #	WP_001056548.1

NCBI Official Full Name	N-acetylneuraminate epimerase
UniProt Protein Name	N-acetylneuraminate epimerase
UniProt Synonym Protein Names	N-acetylneuraminate mutarotase
Protein Family	N-acetylneuraminate epimerase
UniProt Gene Name	nanM
UniProt Synonym Gene Names	Neu5Ac mutarotase
UniProt Comments for nanM	Converts alpha-N-acetylneuranimic acid (Neu5Ac) to the beta-anomer, accelerating the equilibrium between the alpha- and beta-anomers. Probably facilitates sialidase-negative bacteria to compete sucessfully for limited amounts of extracellular Neu5Ac, which is likely taken up in the beta-anomer. In addition, the rapid removal of sialic acid from solution might be advantageous to the bacterium to damp down host responses.
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