Neuraminidase (NA) Influenza A Virus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Neuraminidase (NA), Recombinant Protein
Full Product Name	Recombinant Influenza A virus Neuraminidase (NA), partial
Product Gene Name	NA recombinant protein
Sequence	MNPNQKIITI GSICMVVGII SLILQIGNII SIWISHSIQT GSQNHTGTCN QSIITYKNST WVNQTYVNIS NTNVVAGKDT TSVILAGNSS LCPIRGWAIY SKDNGVRIGS KGDVFVIREP FISCSHLECR TFFLTQGALL NDKHSNGTVK DRSPYRALMS CPVGEAPSPY NSRFESVAWS ASACHDGMGW LTIGISGPDD GAVAVLKYNG IITETIKSWR KEILRTQESE CACVNGSCFT IMTDGPSGGP ASYKIFKIEK GKVTKSIELD APNSHYEECS CYPDTGKVMC VCRDNWHGSN RPWVSFDQNL DYQMGYICSG VFGDNPRPKD GKGNCGPVYV DGANGVKGFS YRYGNGVWIG RTKSNSSRQG FEMIWDPNGW TETDSNFFVK QDVVAVTDWS GYSGSFVQHP ELTGLDCMRP CFWVELIRGR PKEKTIWTSG SSISFCGVNS DTVDWSWPDG AELPFTIDK
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	51,555 Da
Sequence Positions	1-469
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 A4GCL1
Species	Influenza A virus (strain A/USA:Iowa/1943 H1N1)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for NA recombinant protein	MBS1237872 is a recombinant protein targeting NA. Also known as Recombinant Influenza A virus Neuraminidase (NA), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of NA 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 NA. It may not necessarily be applicable to this product.

NCBI GI #	229891233
NCBI Accession #	A4GCL1.1
UniProt Primary Accession #	A4GCL1
NCBI Official Full Name	Neuraminidase
UniProt Protein Name	Neuraminidase

Protein Family	Neuraminidase
UniProt Gene Name	NA
UniProt Comments for NA	Catalyzes the removal of terminal sialic acid residues from viral and cellular glycoconjugates. Cleaves off the terminal sialic acids on the glycosylated HA during virus budding to facilitate virus release. Additionally helps virus spread through the circulation by further removing sialic acids from the cell surface. These cleavages prevent self-aggregation and ensure the efficient spread of the progeny virus from cell to cell. Otherwise, infection would be limited to one round of replication. Described as a receptor-destroying enzyme because it cleaves a terminal sialic acid from the cellular receptors. May facilitate viral invasion of the upper airways by cleaving the sialic acid moities on the mucin of the airway epithelial cells. Likely to plays a role in the budding process through its association with lipid rafts during intracellular transport. May additionally display a raft-association independent effect on budding. Plays a role in the determination of host range restriction on replication and virulence. Sialidase activity in late endosome/lysosome traffic seems to enhance virus replication.
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