Hemagglutinin (HA) Influenza A Virus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Hemagglutinin (HA), Recombinant Protein
Full Product Name	Recombinant Influenza A virus Hemagglutinin (HA)
Product Gene Name	HA recombinant protein
Sequence	DTICIGYHAN NSTDTVDTVL EKNVTVTHSV NLLEDSHNGK LCRLKGIAPL QLGNCSIAGW ILGNPECESL FSQKSWSYIA ETPNSENGTC YPGYFADYEE LREQLSSVSS FERFEIFPKE SSWPNHTVTK GVTASCSHKG KSSFYRNLLW LTEKNGLYPN LSKSYVNNKE KEVLVLWGVH HPSNIGDQRA IYRTENAYVS VVSSHYNRRF IPEIAKRPKV RGQEGRINYY WTLLEPRDTI IFEANGNLIA PWYAFALSRG FGSGIITSNA SMDECDAKCQ TPQGAINSSL PFQNVHPVTI GECPKYVRST KLRMVTGLRN IPSIQS
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	38,569 Da
Sequence Positions	18-343, 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 P28731
Species	Influenza A virus (strain A/Xianfeng/3/1989 H1N2)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for HA recombinant protein	MBS1206590 is a recombinant protein targeting HA. Also known as Recombinant Influenza A virus Hemagglutinin (HA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of HA 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 HA. It may not necessarily be applicable to this product.

NCBI GI #	122945
NCBI Accession #	P28731.1
UniProt Primary Accession #	P28731
NCBI Official Full Name	Hemagglutinin
UniProt Protein Name	Hemagglutinin
Protein Family	Hemagglutinin

UniProt Gene Name	HA
UniProt Comments for HA	Binds to sialic acid-containing receptors on the cell surface, bringing about the attachment of the virus particle to the cell. This attachment induces virion internalization of about two third of the virus particles through clathrin-dependent endocytosis and about one third through a clathrin- and caveolin-independent pathway. Plays a major role in the determination of host range restriction and virulence. Class I viral fusion protein. Responsible for penetration of the virus into the cell cytoplasm by mediating the fusion of the membrane of the endocytosed virus particle with the endosomal membrane. Low pH in endosomes induces an irreversible conformational change in HA2, releasing the fusion hydrophobic peptide. Several trimers are required to form a competent fusion pore.
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