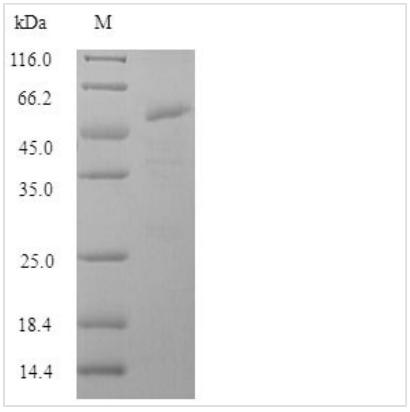
Recombinant Influenza A virus Hemagglutinin (HA), partial

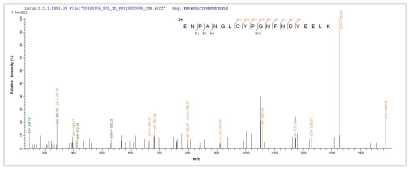
Product Code	CSB-EP721113IFG
Relevance	Binds to sialic acid-containing receptors on the cell surface, bringing about the attachment of the virus particle to the cell. This attachment induces virion internalization of about two third of the virus particles through clathrin-dependent endocytosis and about 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
Abbreviation	Recombinant Influenza A virus Hemagglutinin protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q67282
Alias	Cleaved into the following 2 chains: Hemagglutinin HA1 chain Hemagglutinin HA2 chain
Product Type	Recombinant Protein
Immunogen Species	Influenza A virus (strain A/Mallard/New York/6750/1978 H2N2)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	DQICIGYHANNSTEKVDTILERNVTVTHAKDILEKTHNGKLCRLSGIPPLELGDC SIAGWLLGNPECDRLLSVPEWSYIVEKENPANGLCYPGNFNDYEELKHLLTRV THFEKIKILPRDQWTQHTTTGGSRACAVSGNPSFFRNMVWLTKKGSNYPVAK GSYNNTSGEQMLVIWGIHHPNDDTEQRTLYQNVGTYVSVGTSTLNKRSIPEIA TRPKVNGQGGRMEFSWTLLETWDVINFESTGNLIAPEYGFKISKRGSSGIMKT EKTLENCETKCQTPLGAINTTLPFHNIHPLTIGECPKYVKSDRLVLATGLRNVPQ IES
Research Area	Microbiology
Source	E.coli
Target Names	HA
Expression Region	16-339aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged

Mol. Weight	52.2kDa
Protein Length	Partial

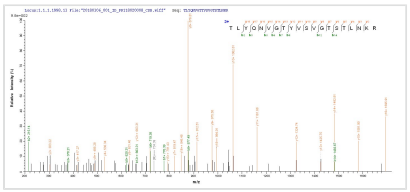
Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP721113IFG could indicate that this peptide derived from E.coli-expressed Influenza A virus (strain A/Mallard/New York/6750/1978 H2N2) HA.



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Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.
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