Influenza A G4 EA H1N1 Haemagglutinin Protein

HA1 Subunit Cat. no. P2020-100



Product Information

Protein: G4 EA H1N1_HA1_His-tag (38.9 kDa)

Sequence: DTICVGYHANNSTDTVDTILEKNVTVTHSVNLLENSHNGKLCSLNGKIPLQLGNCNVAGWILGNPKC

DLLLTANSWSYIIETSNSKNGACYPGEFADYEELKEQLSTVSSFERFEIFPKATSWPNHDTTRGTTVA CSHSGANSFYRNLLWIVKKGNSYPKLSKSYTNNKGKEVLVIWGVHHPPTDSDQQTLYQNNHTYVSV GSSKYYKRFTPEIVARPKVREQAGRMNYYWTLLDQGDTITFEATGNLIAPWHAFALKKGSSSGIMRS

DAQVHNCTTKCQTPHGALKGNLPFQNVHPVTIGKCPKYVKSTQLRMATGLRNIPSIQSRG

C-terminal His-tag not shown in sequence.

Source: Recombinantly expressed in HEK293 cells.

Tag(s): His-tag, C-terminal

Purification: Purified by affinity chromatography and subsequent buffer exchange.

Formulation: PBS; pH 7.4

Liquid, stored and shipped at -80 °C.

Purity: > 85 % (will be determined by densitometry of Coomassie stained gel, example next page)

Concentration: Will be determined by BCA-Assay.

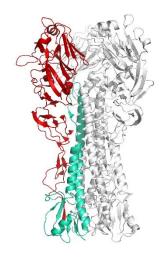
Long-term storage: No recommendations.

Comment: Protein migrates at higher molecular weight during SDS-PAGE due to posttranslational

modifications.

Background Information:

The HA1 Subunit of Haemagglutinin Protein (HA) from the Influenza A – G4 (EA) H1N1 virus plays a major role in the infection of a cell and is therefore a very important target for the development of antibody tests or for vaccine development. The HA1 domain binds to the cell surface receptor and thus brings virus particle into it. The HA1 protein belongs to the Class I viral fusion proteins and plays an important role in the determination of host range restriction and virulence. The protein is responsible for the penetration of the virus into the cell cytoplasm by mediating the fusion of the membrane of the endocytosed virus particle with the endosomal membrane.



Structural model of the trimeric Haemagglutinin protein of Influenza A virus (A/Denver/1957(H1N1) One monomer is shown in colours: the HA1 domain is highlighted in red, the HA2 domain in green.

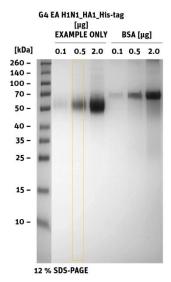
Influenza A G4 EA H1N1 Haemagglutinin Protein

HA1 Subunit Cat. no. P2020-100

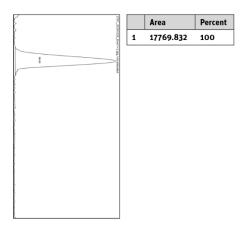


Product Information

Quality Information (provided for each lot):



SDS-PAGE/Coll.Coomassie



Histogram (of marked lane in gel picture)