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AR50309PU-N Influenza A H1N1 A/New York/3571/2009 (18-344, His-tagged) - Purified

Alternate names: Influenza A virus (A/New York/3571/2009 H1N1) haemagglutinin, hemagglutinin

Quantity: 0.25 mg

Concentration: 1mg/ml (determined by Bradford assay)

Background: HA1 (hemaggulutinin1) belongs to the influenza viruses hemagglutinin family.

Influenza hemagglutinin (HA) or haemagglutinin is a type of hemagglutinin found on the surface of the influenza viruses. It is an antigenic glycoprotein. It is responsible for binding the virus to the cell that is being infected. HA protein has two functions. Firstly, it allows the recognition of target vertebrate cells, accomplished through the binding of these cells' sialic acid-containing receptors. Secondly, once bound it facilitates the entry of the viral genome into the target cells by causing the fusion of

host endosomal membrane with the viral membrane.

Uniprot ID: <u>C7RYS4</u>

Format:

NCBI: <u>ACV04238.1</u>

State: Liquid purified protein Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH8.0) containing 10% glycerol

Description: Recombinant Influenza A virus (A/ New York/3571/2009 (H1N1)) HA1 protein, fused to

His-tag at C-terminus, was expressed in Hi-5 cell using baculovirus expression system

and purified by using conventional chromatography.

AA Sequence:

ADLMDTLCIG YHANNSTDTV DTVLEKNVTV THSVNLLEDK HNGKLCKLRG VAPLHLGKCN IAGWILGNPE CESLSTASSW SYIVETSSSD NGTCYPGDFI DYEELREQLS SVSSFERFEI FPKTSSWPNH DSNKGVTAAC PHAGAKSFYK NLIWLVKKGN SYPKLSKSYI NDKGKEVLVL WGIHHPSTSA DQQSLYQNAD AYVFVGSSRY SKKFKPEIAI RPKVRDQEGR MNYYWTLVEP GDKITFEATG NLVVPRYAFA MERNAGSGII ISDTPVHDCN TTCQTPKGAI NTSLPFQNIH

PITIGKCPKY VKSTKLRLAT GLRNVPSIQS RSRHHHHHH

Molecular weight: 37.8 kDa (339aa)

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

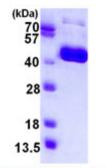
Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: Russell RJ, et al. (2008) Proc. Natl. Acad. Sci. U.S.A. 105 (46): 17736-41. White JM, et al.

(1997) Structural Biology of Viruses. Oxford University Press. pp. 80-104.



Pictures:



15% SDS-PAGE (3ug)