

Influenza A H1N1 (strain A/USA:Huston/AA/1945) Polymerase acidic Protein (His)

General Information

Synonyms:	RNA-directed RNA polymerase subunit P2;Polymerase acidic protein;PA
Protein Construction:	1-209 aa
Species:	H1N1
Expression Host:	P. pastoris (Yeast)
Accession:	A4U6V9
Molecular Weight:	26.6 kDa (predicted)
AA Sequence:	MEDFVRQCFNPMIVELAEKAMKEYGEDLKVETNKFAAICTHLEVCFMYSDFHFINEQGESIIVELGDPNALLKH RFEIIEGRDRTMAWTIVNSICNTTGAEKPKFLPDLYDYKENRFIEIGVTRREVVHIYYLEKANKIKSEKTHIHIFSFTG EEMATKADYTLDEESRARIKTRLFTIRQEMASRGLWDSFRQSERGEETIEERFEITG

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:	A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.
Stability & Storage:	Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.
Shipping:	In general, Lyophilized powders are shipping with blue ice. Solutions are shipping with dry ice.

Protein Background

Plays an essential role in viral RNA transcription and replication by forming the heterotrimeric polymerase complex together with PB1 and PB2 subunits. The complex transcribes viral mRNAs by using a unique mechanism called cap-snatching. It consists in the hijacking and cleavage of host capped pre-mRNAs. These short capped RNAs are then used as primers for viral mRNAs. The PB2 subunit is responsible for the binding of the 5' cap of cellular pre-mRNAs which are subsequently cleaved after 10-13 nucleotides by the PA subunit that carries the

endonuclease activity.

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Tel:781-999-4286

E_mail:info@targetmol.com

Address:34 Washington Street,Wellesley Hills,MA 02481