

MRC PPU Reagents and Services

Standard Operating Procedure

Preparation of Influenza A Virus PA-X [192 - 252]

Enzyme description:- IAV PA-X [192 - 252]

Clone number:- DU 73913

Source:- Recombinant

Expression system:- *E.coli*

Tag:- N-terminal GST

Purification method:- GSH Agarose

Calculated molecular mass:-

Monoisotopic 33, 743.37 daltons

Average Mass 33, 765.39 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 8.65

Purity:- 80 %

Enzyme storage buffer:-

50 mM Tris-HCl pH 7.5, 270 mM Sucrose, 150 mM NaCl, 0.1 mM EGTA, 0.5 mM TCEP

Storage temperature:- -70 °C

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Clone Data Sheet

Influenza A Virus PA-X [192 – 253]

<u>Protein</u>	IAV PA-X [192 - 253]
<u>Clone number</u>	DU 73913
<u>Species</u>	Influenza A virus (IAV) strain A/Puerto Rico/8/1934(H1N1) ('PR8')
<u>Tags</u>	N-terminal GST
<u>Bacterially expressed protein</u>	MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELG LEFPNLPPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGA VLDIRYGVSRRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDH VTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAI PQIDKYLKSS KYIAWPLQGWQATFGGGDHPPKSDLEVL <u>FQGPLGS</u> VSPREEKRQLKKGL KSQEQCASLPTKVSRRTPALKILEPMWMSNRATLRLASCLKCPKK
<u>Native sequence</u>	Amino acids V192 – K252 (end residue) of IAV PA-X protein. Residue V232 of the fusion protein is equivalent to V192 of the native enzyme. The GST tag is located at residues 1 – 220.
<u>Protease cleavage</u>	PreScission (<u>LEVLFGQP</u>) residues 221 - 229