Standard Operating Procedure

Preparation of Influenza A Virus NEP [11 – 121]

Enzyme description:- IAV NEP [11 - 121]

Clone number:- DU 73915

Source:- Recombinant

Expression system:- *E.coli*

Tag:- N-terminal MBP

Purification method:- Amylose Resin

Calculated molecular mass:-
Monoisotopic 57, 548.20 daltons
Average Mass 57, 548.27 daltons
[cysteines reduced, methionines have not been oxidised

Theoretical pI:- 4.94

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

Clone Data Sheet

Influenza A Virus NEP [11 – 121]

Protein IAV NEP [11 - 121]

Clone number DU 73915

Species Influenza A virus (IAV) strain A/Puerto Rico/8/1934(H1N1) ('PR8')

Tags N-terminal MBP

Bacterially expressed protein

MKIEEGKLVIWINGDKGYNGLAEVGKKFEKDTGIKVTVEHPDKLEEKFP
QVAATGDGPDIIFWAHDRFGGYAQSGLLAEITPDKAFQDKLYPFTWDAV
RYNGKLIAYPIAVEALSLIYNKDLLPNPPKTWEEIPALDKELKAKGKSA
LMFNLQEPYFTWPLIAADGGYAFKYENGKYDIKDVGVDNAGAKAGLTFL
VDLIKNKHMNADTDYSIAEAAFNKGETAMTINGPWAWSNIDTSKVNYGV
TVLPTFKGQPSKPFVGVLSAGINAASPNKELAKEFLENYLLTDEGLEAV
NKDKPLGAVALKSYEEELVKDPRIAATMENAQKGEIMPNIPQMSAFWYA
VRTAVINAASGRQTVDEALKDAQTNSSSNNNNNNNNNNLGDDDDKVPEF
LEVLFQGPLGS**DILLRMSKMQLESSSEDLNGMITQFESLKLYRDSLGEA
VMRMGDLHSLQNRNEKWREQLGQKFEEIRWLIEEVRHKLKITENSFEQI
TFMQALHLLL EVEQEIRTFSFQLI**

Native sequence Amino acids D11 – I121 (end residue) of IAV NEP protein.
Residue D404 of the fusion protein is equivalent to D11 of the native enzyme. The MBP tag is located at residues 1 – 367.

Protease cleavage PreScission (LEVLFQGP) residues 393 - 400