Standard Operating Procedure

Preparation of Influenza B Virus NEP (12 – 122)

Enzyme description:- IBV NEP (12 – 122)

Clone number:- DU 75488

Source:- Recombinant

Expression system:- *E.coli*

Tag:- N-terminal GST

Purification method:- GSH Sepharose

Calculated molecular mass:-
Monoisotopic 39, 853.45 daltons
Average Mass 39, 879.36 daltons
[cysteines reduced, methionines have not been oxidised

Theoretical pI:- 6.18

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

MRC PPU Reagents and Services

Clone Data Sheet

Influenza B Virus NEP (12 – 122)

Protein IBV NEP (12 – 122)

Clone number DU 75488

Species Influenza B virus (IBV) strain B/Florida/04/2006

Tags N-terminal GST

Bacterially expressed protein

MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELG
LEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGA
VLDIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDH
VTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPQIDKYLKSS
KYIAWPLQGWQATFGGGDHPPKSDLEVLFQGPLGS**WRMKKMAIGSSIHS**
SSVLMKDIQSQFEQLKLRWESYPNLVKSTDYHQKRETIRLVTEELYLLS
KRIDDNILFHKTVIANSSIIADMVVSLSLLETLYEMKDVVEVYSRQCL

Native sequence Amino acids W12 – L122 (end residue) of IBV NEP protein. Residue W232 of the fusion protein is equivalent to D11 of the native enzyme. The GST tag is located at residues 1 – 220.

Protease cleavage PreScission (LEVLFQGP) residues 221 - 229