Standard Operating Procedure

Preparation of Influenza B Virus M1 [1 – 248]

Enzyme description:- IBV M1 [1 - 248]

Clone number:- DU 75470

Source:- Recombinant

Expression system:- *E.coli*

Tag:- N-terminal GST

Purification method:- GSH Sepharose

Calculated molecular mass:-
Monoisotopic 54, 203.56 daltons
Average Mass 54, 239.01 daltons
[cysteines reduced, methionines have not been oxidised

Theoretical pI:- 8.13

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 M1 [1 – 248]

Protein IBV M1 [1 - 248]

Clone number DU 75470

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

Tags N-terminal GST

Bacterially expressed protein

MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELG
LEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGA
VLDIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDH
VTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPQIDKYLKSS
KYIAWPLQGWQATFGGGDHPPKSDLEVLFQGPLGS**MSLFGDTIAYLLSL**
TEDGEGKAELAEKLHCWFGGKEFDLDSALEWIKNKRCLTDIQKALIGAS
ICFLKPKDQERKRRFITEPLSGMGTTATKKKGLILAERKMRRCVSFHEA
FEIAEGHESSALLYCLMVMYLNPGNYSMQVKLGTLCALCEKQASHSHRA
HSRAARSSVPGVRREMQMVSAMNTAKTMNGMGKGEDVQKLAEELQSNIG
VLRSLGASQKNGEGIAKDVMEVLKQSSMGNSALVKKYL

Native sequence Amino acids M1 – L248 (end residue) of IBV M1 protein.
Residue M232 of the fusion protein is equivalent to M1 of the native enzyme. The GST tag is located at residues 1 – 220.

Protease cleavage PreScission (LEVLFQGP) residues 221 - 229