Standard Operating Procedure

Preparation of Influenza D Virus NS2 [1 – 184]

Enzyme description:- IDV NS2 [1 - 184]

Clone number:- DU 75208

Source:- Recombinant

Expression system:- *E.coli*

Tag:- N-terminal GST

Purification method:- GSH Agarose

Calculated molecular mass:-
Monoisotopic 47, 722.28 daltons
Average Mass 47, 753.15 daltons
[cysteines reduced, methionines have not been oxidised

Theoretical pI:- 5.54

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 D Virus NS2 [1 – 184]

Protein IDV NS2 [1 - 184]

Clone number DU 75208

Species Influenza D virus (IDV) strain D/bovine/Oklahoma/660/2013

Tags N-terminal GST

Bacterially expressed protein

MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELG
LEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGA
VLDIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDH
VTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPQIDKYLKSS
KYIAWPLQGWQATFGGGDHPPKSDLEVLFQGPLGS**MSENKSVNTTNIRA**
AISELALGAASWMDSSGLMTFEKMRKSAENSLRVEQVYEPRTWEDAVAE
ETLRNQLTALRISVEEMTQKSQYERYSEFGEVDLLLPLMRNLEMRSDDT
NLDVKQIPSGEEKAQLLERFRSCLVSLIRLKSKLGVAMVNSLTNQDMRA
ALDEIKSVSRTISMLKECIRSLV

Native sequence Amino acids M1 – V184 (end residue) of IDV NS2 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