Standard Operating Procedure

Preparation of Influenza D Virus NS2 [64 – 184]

Enzyme description:- IDV NS2 [64 - 184]

Clone number:- DU 75221

Source:- Recombinant

Expression system:- *E.coli*

Tag:- N-terminal MBP

Purification method:- Amylose Resin

Calculated molecular mass:-
Monoisotopic 58, 110.63 daltons
Average Mass 58, 147.05 daltons
[cysteines reduced, methionines have not been oxidised

Theoretical pI:- 5.01

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 [64 – 184]

Protein IDV NS2 [64 - 184]

Clone number DU 75221

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

Tags N-terminal MBP

Bacterially expressed protein

MKIEEGKLVIWINGDKGYNGLAEVGKKFEKDTGIKVTVEHPDKLEEKFP
QVAATGDGPDIIFWAHDRFGGYAQSGLLAEITPDKAFQDKLYPFTWDAV
RYNGKLIAYPIAVEALSLIYNKDLLPNPPKTWEEIPALDKELKAKGKSA
LMFNLQEPYFTWPLIAADGGYAFKYENGKYDIKDVGVDNAGAKAGLTFL
VDLIKNKHMNADTDYSIAEAAFNKGETAMTINGPWAWSNIDTSKVNYGV
TVLPTFKGQPSKPFVGVLSAGINAASPNKELAKEFLENYLLTDEGLEAV
NKDKPLGAVALKSYEEELVKDPRIAATMENAQKGEIMPNIPQMSAFWYA
VRTAVINAASGRQTVDEALKDAQTNSSSNNNNNNNNNNLGDDDDKVPEF
LEVLFQGPLGS**ETLRNQLTALRISVEEMTQKSQYERYSEFGEVDLLLPL
MRNLEMRSDDTNLDVKQIPSGEEKAQLLERFRSCLVSLIRLKSKLGVAM
VNSLTNQDMRAALDEIKSVSRTISMLKECIRSLV**

Native sequence Amino acids E64 – V184 (end residue) of IDV NS2 protein.
Residue E404 of the fusion protein is equivalent to E64 of the native enzyme. The MBP tag is located at residues 1 – 367.

Protease cleavage PreScission (LEVLFQGP) residues 393 - 400