MRC PPU Reagents and Services

Standard Operating Procedure

Preparation of Influenza D Virus NP [1 – 552]

Enzyme description:- IDV NP [1 - 552]

Clone number:- DU 75220

Source:- Recombinant

Expression system:- *E.coli*

Tag:- N-terminal MBP

Purification method:- Amylose Resin

Calculated molecular mass:-
Monoisotopic 105, 464.57 daltons
Average Mass 105, 531.18 daltons
[cysteines reduced, methionines have not been oxidised

Theoretical pI:- 7.86

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

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Clone Data Sheet

Influenza D Virus NP [1 – 552]

Protein IDV NP [1 - 552]

Clone number DU 75220

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**MDSTKAQTPEEQRAKNAKTILENIQIYERMCDLFGVSE
DDKLIIENSISIERMIRVVTDKKYQDKKLKNAGSDLEKIANAGKVFCRL
VESTAGKCSARLGMALKPNVEAVLTDVLGNELDRAAVLGKRMGFTAMFK
SNLEEVLYQRGKNQLKKRNAAETFTLSQGASLEARFRPIMEKHLGVGTV
VASIKNILASKKNGNYRNKMVRKPGGNRESWSPLEREISFLNKKLFPGP
MRQLCKKFEYLNDQEKQLALNLMLDASLILKPQVTHKMIMPWSMWLAVK
KYAEMNKGSPSLEDLAAYSGVRAFMAFNTACYMSKFTIGKGIVGDAEIM
ENGNDKMQTLAMACFGLAYEDTGIVAAMISQPMKKRYQLRVGNFNPPEE
GTIKGTSAGYFHKWAEFGNRLPFNSFGTGESKQISNSGVFAVQRPSTTN
IQRLAELMARNTGETSDNFTQLVQKIREQVGTFADQKANLREFTGGYIY
DITDVTKSNPKIPQLGGDSFFFEFTGSDVPRTGAKRRVGGADDVTPGTS
QPKKRGRQGAGAESSMDIETVGED**

Native sequence Amino acids M1 – N552 (end residue) of IDV NP protein.
Residue M408 of the fusion protein is equivalent to M1 of the native enzyme. The MBP tag is located at residues 1 – 367.

Protease cleavage PreScission (LEVLFQGP) residues 393 - 400