

MRC PPU Reagents and Services

Standard Operating Procedure

Preparation of Influenza B Virus NP [1 – 560]

Enzyme description:- IBV NP [1 - 560]

Clone number:- DU 76480

Source:- Recombinant

Expression system:- *E.coli*

Tag:- N-terminal GST

Purification method:- GSH Agarose

Calculated molecular mass:-

Monoisotopic 88, 398.23 daltons

Average Mass 88, 455.21 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 8.89

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 B Virus NP [1 – 560]

Protein IBV NP [1 - 560]
Clone number DU 75480
Species Influenza B virus (IBV) strain B/Florida/04/2006
Tags N-terminal GST

**Bacterially
expressed protein**

MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELG
LEFPNLPYYIDGDVVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGA
VLDIRYGVSR IAYS KDFETLKVDFLSKLP EMLKMFEDRLCHKTYLNGDH
VTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAI PQIDKYLKSS
KYIAWPLQGWQATFGGGDHPPKSDLEVL FQGPLGS **MSNMIDGINTGTI**
DKTPEEITPGTSGTTRPIIRPATLAPPSNKTRNPSPERATTSS EDDVG
RKTQKKQTPTEIKKSVYNM VVKLGEFYNQMMVKAGLNDDMERNLIQNAH
AVERILLAATDDKKT E FQKKKNARDVKEGKEEIDHNKTGGTFYKMVRDD
KTIYFSPIRITFLKEEVK TMYKTTMGS DGFSGLNHIMIGHSQMNDVCFQ
RSKALKRVGLDPSLISTFAGSTIPRRSGATGVAIKGGGTLVAE AIRFIG
RAMADRGLLRDIKAKTAYEKILLNLKNKCSAPQQKALVDQVIGSRNPGI
ADIEDLTLLARSMVVRPSVASKVLPIS IYAKIPQLGFNVVEEYSMVG Y
EAMALYNMATPVSILRMGDDAKDKS QLEFFMSCFGAAYEDLRVLSALTGT
EFKPRSALKCKGFHVP AKEQVEGMGAALMSIKLQFWAPMTRSGGNEVGG
DGGSGQISCS PVFAVERPIALS KQAVRRMLSMNIEGRDADVKNLLKMM
NDSMAKKTSGNAFIGKKMFQISDKNKTNPVEIPIKQTI PNFFFGRDTAE
DYDDL DY

Native sequence Amino acids M1 – Y560 (end residue) of IBV NP 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 (LEVL FQGP) residues 221 - 229