

MRC PPU Reagents and Services

Standard Operating Procedure

Preparation of Nucleocapsid Protein [1 - 389] Human CoV 229E

Enzyme description:- Human CoV 229E N Protein [1 - 389]

Clone number:- DU 67703

Source:- Recombinant

Expression system:- *E. coli*

Tag:- N-terminal GST

Purification method:- GSH Agarose

Calculated molecular mass:-

Monoisotopic 70, 246.91 daltons

Average Mass 70, 290.93 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 9.03

Purity:- 80 %

Enzyme storage buffer:-

50 mM Tris-HCl pH 7.5, 270 mM Sucrose, 150 mM NaCl, 0.1 mM EGTA,
0.1 % 2-mercaptoethanol, 0.03 % Brij-35

Storage temperature:- -70 °C

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Clone Data Sheet

Nucleocapsid Protein [1 - 389] Human CoV 229E

Protein Human CoV 229E N Protein [1 – 389]

Clone number DU 67703

Accession number NP_073556.1

Tags N-terminal GST

Bacterially expressed protein

MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKK
FELGLEFPNLPIYYIDGDVKLTQSMAIIRYIADKHNLGGCPKERA
EISMLEGAVLDIIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFED
RLCHKTYLNGDHVTPDFMLYDALDVVLYMDPMCLDAFPKLVCFK
KRIEAIPQIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDELVLF
QGPLGSMATVKWADASEPQRGRQGRIPYSLYSPLLVDSEQPWKVI
PRNLVPINKDKKNKLIGYWNVQKRFRTRKGKRVDLSPKLHFYYLG
TGPHKDAKFRERVEGVVVWAVDGAKTEPTGYGVRRKNSPEIIPH
NOKLPNGTVVVEEPDSRAPSRSQRSQSRGRGESKPQSRNPSSDR
NHNSQDDIMKAVAAALKSLGFDKPKQEKDKKSAKTGTGTPKPSRNQSP
ASSQTSAKSLARSQSSETKEQKHEMOKPRWKRQPNDVTNSVTQC
FGPRDLDHNFGSAGVANGVKAKGYPOFAELVPSTAAMLFDSHV
SKESGNTVVLTFTRTVPKDHPLGKFLEELNAFTREMQQHPLL
NPSALEFNPSQTSPATAEPVRDEVSIEDTIDIDEVN

Native sequence Amino acids M1 – N389 (end).

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 – 228