MRC PPU Reagents and Services

Standard Operating Procedure

Preparation of NSP5 [1 - 306] SARS CoV2

Enzyme description:- NSP5 [1- 306]

Clone number:- DU 67815

Source:- Recombinant

Expression system:- *E. coli*

Tag:- N-terminal His6

Purification method:- Cobalt Agarose

Calculated molecular mass:-
Monoisotopic 36, 217.60 daltons
Average Mass 36, 241.27 daltons
[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 6.20

Purity:- 90 %

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

NSP5 [1 – 306] SARS CoV2

Protein	NSP5 [1 - 306]
Clone number	DU 67815
Accession number	QHD43415.1
Tags	N-terminal His6
Bacterially expressed protein	MGSSHHHHHHSSGLEVLFQGPLGS**SGFRKMAFPSGKVEGCMVQVT CGTTTLNGLWLDDVVYCPRHVICTSEDMLNPNYEDLLIRKSNHNF LVQAGNVQLRVIGHSMQNCVLKLKVDTANPKTPKYKFVRIQPGQT FSVLACYNGSPSGVYQCAMRPNFTIKGSFLNGSCGSVGFNIDYDC VSFCYMHHMELPTGVHAGTDLEGNFYGPFVDRQTAQAAGTDTTIT VNVLAWLYAAVINGDRWFLNRFTTTLNDFNLVAMKYNYEPLTQDH VDILGPLSAQTGIAVLDMCASLKELLQNGMNGRTILGSALLEDEF TPFDVVRQCSGVTFQ**
Native sequence	Amino acids S1 – Q306 (end). Residue S25 of the fusion protein is equivalent to S1 of the native enzyme. The His6 tag is located at residues 5 – 10.
Protease cleavage	PreScission (LEVLFQGP) residues 14 – 21