

Variola Major Virus (Bangladesh-1975) M1R Protein, Recombinant from Baculovirus

Catalog No. NR-10501

Product Description: NR-10501 is a recombinant form of the variola major (Bangladesh-1975) M1R protein, a homolog of the vaccinia virus (WR) L1R protein. The full-length variola major virus M1R protein contains 250 amino acid residues (GenPept: AAA60821; GenBank: L22579). NR-10501 is a truncated form of M1R, comprising amino acid residues 1-185, and lacking the C-terminal transmembrane domain of the intact protein. NR-10501 was produced by baculovirus infection of *Trichoplusia ni* insect larvae using the proprietary Chesapeake PERL technology, PERLXpress.¹ The protein was purified using standard chromatographic methods.

Lot: 58371071

Manufacturing Date: 10OCT2008

TEST	SPECIFICATIONS	RESULTS
SDS-PAGE (Coomassie Blue densitometer scan)	Dominant bands, multiple glycoforms near 19 kDa ≥ 95% pure	Dominant bands, multiple glycoforms near 19 kDa ≥ 99% pure (Figure 1)
Identification by Western Blot Mouse monoclonal antibody ² to vaccinia L1R Mouse monoclonal antibody ³ to vaccinia A33R	Reactive Not reactive	Reactive (Figure 2) Not reactive (Figure 3)
Demonstration of Protein N-Glycosylation	Size reduction of protein observed on SDS-PAGE when treated with de-glycosylating enzyme PNGase F	Size reduction of protein observed on SDS-PAGE when treated with de-glycosylating enzyme PNGase F (Figure 4)
Concentration by Bicinchoninic Acid Protein Assay	1.0 mg/mL ± 0.3 mg/mL	1.2 mg/mL

¹PERLXpress™, Chesapeake Protein Expression and Recovery Labs (C-PERL).

²VMC-2; provided by G. H. Cohen and R. J. Eisenberg (monoclonal antibody prepared from the same hybridoma as VMC-2 is available as BEI Resources NR-417).

³VMC-1; provided by G. H. Cohen and R. J. Eisenberg.

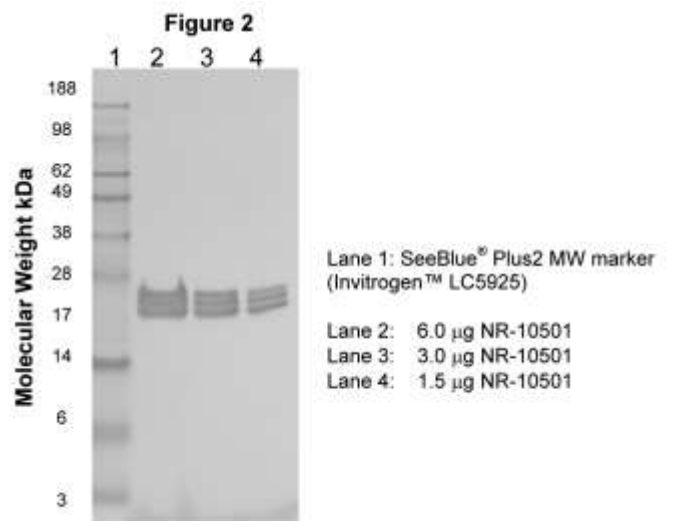
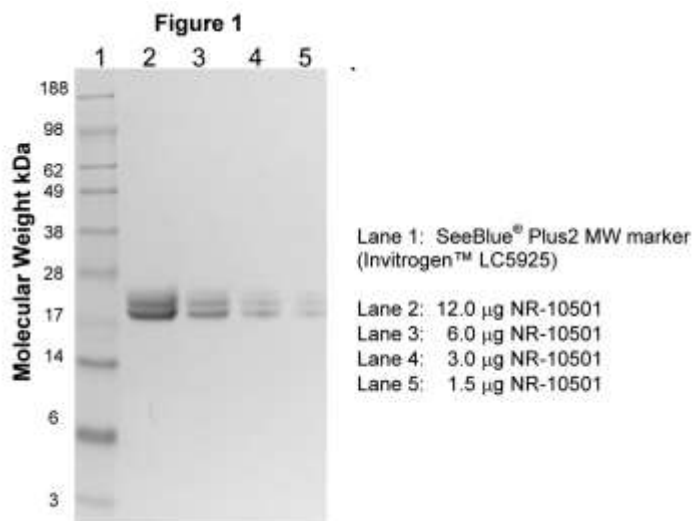
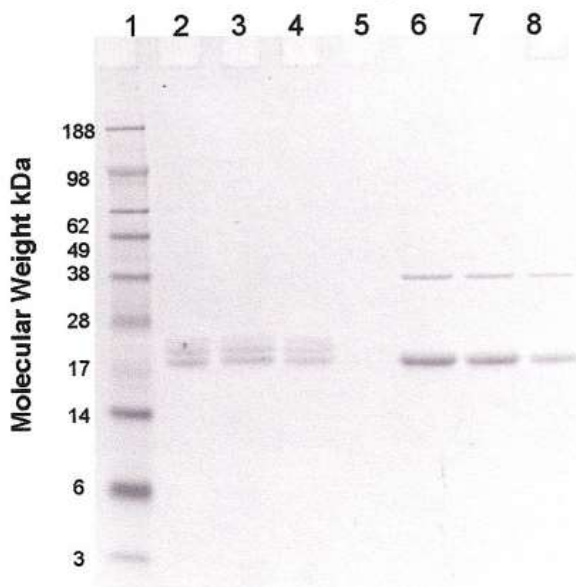


Figure 3



Lane 1: SeeBlue® Plus2 MW markers (Invitrogen™ LC5925)
 Lane 2: Blank
 Lane 3: Blank
 Lane 4: 5.5 µg A33R
 Lane 5: 4.4 µg A33R
 Lane 6: 3.3 µg A33R
 Lane 7: 2.2 µg A33R
 Lane 8: 1.1 µg A33R
 Lane 9: 0.6 µg NR-10501
 Lane 10: 1.2 µg NR-10501
 Lane 11: 1.8 µg NR-10501
 Lane 12: 2.4 µg NR-10501
 Lane 13: 3.0 µg NR-10501

Figure 4



Lane 1: SeeBlue® Plus2 MW markers (Invitrogen™ LC5925)

Control samples:

Lane 2: 3.0 µg NR-10501
 Lane 3: 3.4 µg NR-10501, + PNGase reaction buffer
 Lane 4: 2.2 µg NR-10501, + PNGase reaction buffer
 Lane 5: Blank

PNGase Reaction Samples:

Lane 6: 4.2 µg PNGase F digestion
 Lane 7: 2.8 µg PNGase F digestion
 Lane 8: 1.4 µg PNGase F digestion

Note: Lanes 6 – 8 show the presence of PNGase enzyme migrating at ~ 38kDa.

Date: 26 March 2009

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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