

Variola Major Virus (India-1967) A36R Protein, Recombinant from Baculovirus

Catalog No. NR-10503

Product Description: NR-10503 is a recombinant form of the variola major (India-1967) A36R protein, a homolog of the vaccinia virus (WR) A33R protein. The full-length variola major virus A36R protein contains 184 amino acid residues (GenPept: NP_042184; GenBank: X69198). NR-10503 is a truncated form of A36R, comprising amino acid residues 58-184, and lacking the N-terminal transmembrane domain of the intact protein. NR-10503 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: 58371074

Manufacturing Date: 06NOV2008

TEST	SPECIFICATIONS	RESULTS
SDS-PAGE (Coomassie Blue densitometer scan)	Dominant bands, ~ 14 kDa ≥ 95% pure	Dominant bands, ~ 14 kDa ≥ 95% pure (Figure 1)
Identification by Western Blot Rabbit polyclonal antibody to variola major A36R ² Mouse monoclonal antibody to vaccinia L1R ³	Reactive Not reactive	Reactive (Figure 2) Not reactive (Figure 3)
Evaluation of Protein N-Glycosylation	No size reduction of protein observed on SDS-PAGE when treated with de-glycosylating enzyme PNGase F	No 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	1.18 mg/mL

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

²R-213; provided by G. H. Cohen and R. J. Eisenberg.

³VMC-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).

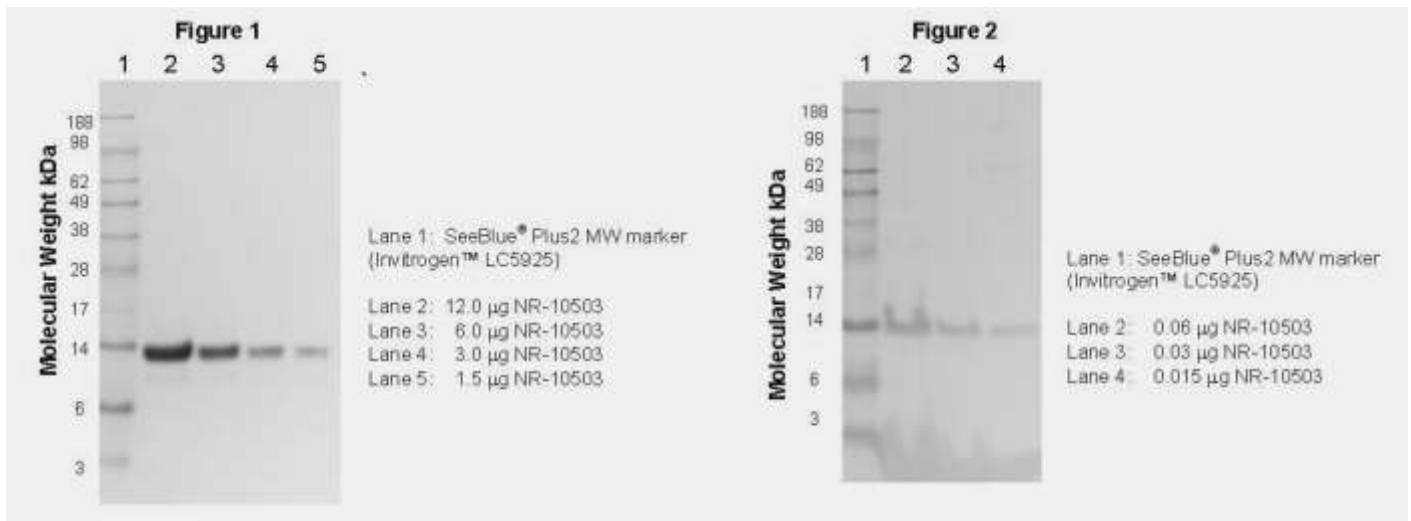
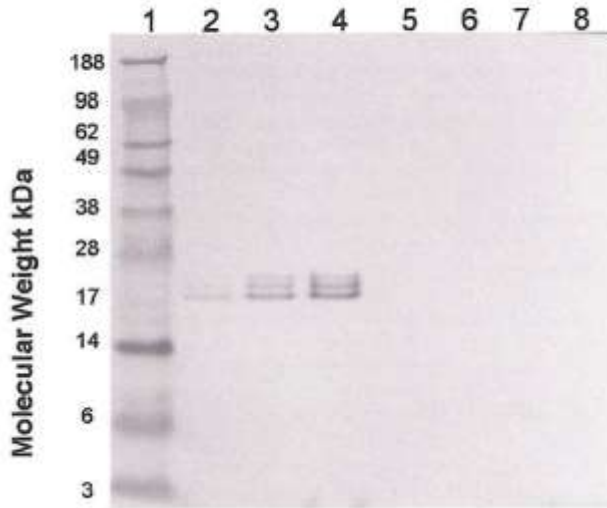


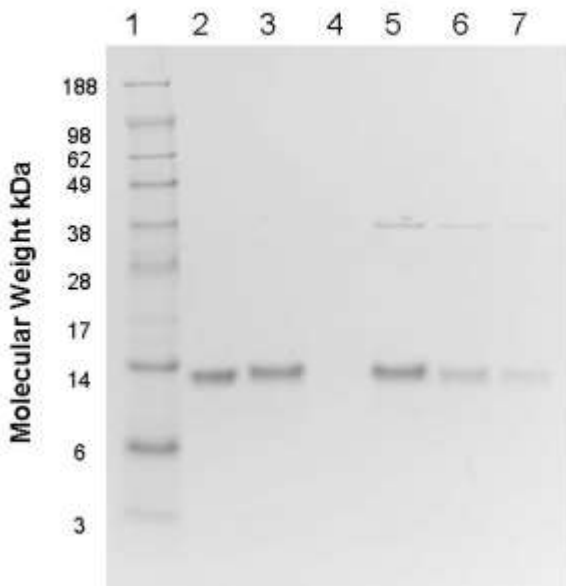
Figure 3



Lane 1: SeeBlue[®] Plus2 MW markers (Invitrogen[™] LC5925)
 Lane 2: 0.06 µg L1R *variola* homolog
 Lane 3: 0.12 µg L1R *variola* homolog
 Lane 4: 0.24µg L1R *variola* homolog
 Lane 5: Blank
 Lane 6: 0.06 µg NR-10503
 Lane 7: 0.12 µg NR-10503
 Lane 8: 0.24 µg NR-10503

*BEI Number NR-10501, *variola* homolog of *vaccinia* L1R protein

Figure 4



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

Control samples:

Lane 2: 3.0 µg NR-10503
 Lane 3: 3.0 µg NR-10503 no PNGase
 Lane 4: Blank

NR-10503 PNGase Reaction Samples:

Lane 5: 3.0 µg PNGase F digestion
 Lane 6: 1.5 µg PNGase F digestion
 Lane 7: 0.75 µg PNGase F digestion

Note: Lanes 5 – 7 show the presence of PNGase enzyme migrating at ~ 38kDa.

Date: 26 MAR 2009

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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