

Nonstructural Protein 1 (NS1) with N-terminal Histidine Tag from Zika Virus, Recombinant from Baculovirus

Catalog No. NR-50872

This reagent is the tangible property of the U.S. Government.

Product Description:

A recombinant form of the Zika NS1 protein containing an N-terminal histidine tag was produced in Sf9 insect cells using a baculovirus expression vector system and was purified by immobilized-metal affinity chromatography.

Lot: 70052884

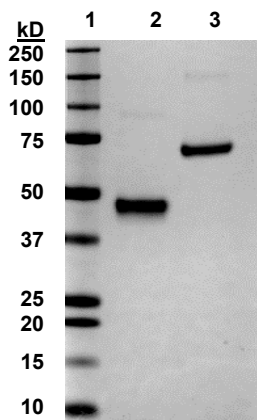
Manufacturing Date: 21OCT2022

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TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
Molecular Weight Determination by MALDI-MS	Report results	44.475 kDa
SDS-PAGE	Protein band of interest represents > 90% of total staining intensity	Dominant band of ~ 45 kDa accounts for > 90% of total staining intensity (Figure 1)
Identification by Western Blot Analysis Monoclonal anti-histidine tag ¹	Reactive	Reactive (Figure 2)
Concentration by Bicinchoninic Acid Assay Bovine Serum Albumin (standard)	Report results	280 µg per mL
Final Product Amount per vial Volume per vial	Report results Report results	126 µg 450 µL
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	Report results	35.7 EU per mg
Sterility	0.2 µm sterile-filtered	0.2 µm sterile-filtered

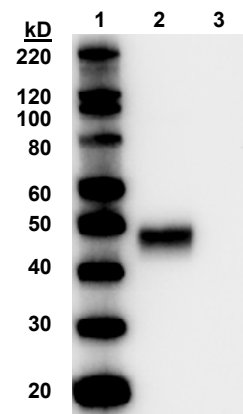
¹Using a 1:1000 dilution of mouse monoclonal anti-histidine tag (R&D Systems MAB050) as primary antibody and a 1:1000 dilution of HRP-conjugated goat anti-mouse IgG (R&D Systems HAF007) as secondary antibody

Figure 1: SDS-PAGE



Lane 1: MagicMark™ XP Protein Standard
Lane 2: NR-50872, 1.0 µg
Lane 3: BSA, 1.0 µg

Figure 2: Western Blot with Anti-Histidine Tag



Lane 1: MagicMark™ XP Protein Standard
Lane 2: NR-50872, 1.0 µg
Lane 3: BSA, 1.0 µg

/ Sonia Bjorum Brower /

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Technical Manager or designee, ATCC Federal Solutions

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