HCV-NS5-G1a (residues 2322-2423)
Hepatitis C Virus Non-Structural protein, Genotype 1a recombinant, E. coli

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<tr>
<th>Cat. No.</th>
<th>Amount</th>
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<td>PR-1168</td>
<td>100 µg</td>
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For in vitro use only
Quality guaranteed for 12 months
Store at -20°C

Avoid freeze / thaw cycles

Form
Liquid. Supplied in 50 mM Tris-HCl pH 8.0, and 5 mM EDTA.

Application
Antigen in ELISA and Western blots, excellent antigen for detection of HCV with minimal specificity problems.

Specificity
Immunoreactive with sera of HCV-infected individuals.

Purity
>95% by SDS-PAGE

Description
The protein contains the HCV NS5 Genotype 1a immunodominant regions, amino acids 2322-2423. Hepatitis C Virus NS5 protein is purified by proprietary chromatographic techniques.

Background
The hepatitis C virus (HCV) NS5A gene product is a phosphorylated 56- to 58-kD nonstructural protein that displays a multitude of activities related to enhancement of viral pathogenesis. Although associated with other viral encoded proteins as part of the viral replicase complex positioned on the cytoplasmic side of the endoplasmic reticulum, a role for NS5A in viral replication has not been defined. Truncated versions of NS5A can act as transcriptional activators, while other recently characterized interactions of NS5A with cellular proteins indicate its pleiotropic role in HCV-host interactions. It has been shown that NS5B is a membrane-associated protein, which contains a C-terminal domain comprising 21 hydrophobic amino acids that is responsible for membrane anchorage. NS5B may form a complex with cellular proteins or other HCV nonstructural proteins, including NS3, the viral protease and helicase; NS4A, a cofactor of NS3 protease activity; and NS5A, a phosphoprotein containing a putative interferon sensitivity region. Although the HCV replication mechanism is not clearly understood, the essential role of NS5B polymerase in the HCV replication and infection process has been demonstrated in chimpanzees. Accordingly, it has been viewed as an attractive target for antiviral intervention.

Selected References:
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