



# Recombinant HCV type 1a Nonstructural Protein 5 (a.a. 2322-2423) (DAG-P2804)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Active hepatitis c virus Hepatitis C Virus genotype 1a NS5 protein fragment
<b>Antigen Description</b>	Hepatitis C Virus is a positive, single stranded RNA virus in the Flaviviridae family. The genome is approximately 10,000 nucleotides and encodes a single polyprotein of about 3,000 amino acids. The polyprotein is processed by host cell and viral proteases into three major structural proteins and several non structural proteins necessary for viral replication. Several different genotypes of HCV with slightly different genomic sequences have since been identified that correlate with differences in response to treatment with interferon alpha. NS5A is a ~56 kDa pleiotropic protein with key roles in both viral RNA replication and modulation of the physiology of the host cell. Its exact role is not currently known (2008). NS5B (non-structural protein 5B) is an RNA-dependant RNA polymerase responsible for replication of the hepatitis C viral genome, and is currently a principal target for chemotherapeutic inhibition of HCV replication. Hepatitis C virus (HCV) can cause chronic hepatitis, cirrhosis and hepatocellular carcinoma. At present there is no vaccine effective against HCV.
<b>Species</b>	HCV
<b>Purity</b>	> 95 % by SDS-PAGE. This antigen was purified by a proprietary chromatographic technique.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB ELISA
<b>Bio-activity</b>	Active hepatitis c virus Hepatitis C Virus genotype 1a NS5 protein fragment is immunoreactive with sera of HCV-infected individuals.
<b>Format</b>	Liquid
<b>Buffer</b>	Preservative: None Constituents: 50mM Tris, 5mM EDTA, pH 8

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<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Preservative: None Constituents: 50mM Tris, 5mM EDTA, pH 8 This product is an active protein and may elicit a biological response in vivo, handle with

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## BACKGROUND

<b>Introduction</b>	Hepatitis C Virus is a positive, single stranded RNA virus in the Flaviviridae family. The genome is approximately 10,000 nucleotides and encodes a single polyprotein of about 3,000 amino acids. The polyprotein is processed by host cell and viral protease
<b>Keywords</b>	HCV 1a NS5; Hepatitis C virus NS5A; Non-structural protein 5A; p56; HCV genotype 1a NS5

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