



# Recombinant HCV type 3a Nonstructural Protein 5 (DAG-P2806)

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 3a NS5 full length protein
<b>Antigen Description</b>	HCV is classified into the genus Hepacivirus of the family Flaviviridae. Like all the members of the family, HCV is an enveloped, single-stranded, positive-sense RNA virus. Its genome (about 9600 nt) is flanked at both termini by conserved, highly structured non-translated regions (NTRs) and encodes a polyprotein precursor (about 3000 aa), which is proteolytically processed by host and viral proteases to produce the structural (core, E1, E2 and p7) and non-structural (NS2, NS3, NS4A, NS4B, NS5A and NS5B) proteins of the virus. Recently, an additional protein has been identified, whose function remains unknown. 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 RNA-dependant RNA polymerase is responsible for replication of the hepatitis C viral genome, and is currently a principal target for chemotherapeutic inhibition of HCV replication.
<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 3a NS5 full length protein is immunoreactive with sera of HCV-infected individuals.
<b>Format</b>	Liquid
<b>Buffer</b>	Preservative: None Constituents: 50% Glycerol, 1.5M Urea, 25mM Tris HCl, 1mM EDTA
<b>Preservative</b>	None

**Storage**

Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

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## BACKGROUND

**Introduction**

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

**Keywords**

HCV NS5; Hepatitis C virus NS5; Non structural protein 5A; Non structural protein 5B; NS5A; p56; p68; HCV Genotype 3a NS5