



# Recombinant HCV Active Nonstructural Protein 3 (a.a. 1192-1459) (DAG-P2944)

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 NS3 protein fragment
<b>Antigen Description</b>	The polyprotein is processed by host cell and viral proteases into three major structural proteins including NS3, and several non-structural proteins necessary for viral replication. The NS3 part of the polyprotein displays three enzymatic activities: serine protease, NTPase and RNA helicase. The NS3 serine proteinase (NS3P) is a non-structural hepatitis C protein responsible for proteolytic processing of other non-structural proteins; because of this, it is also the most extensively studied protein of the Hepatitis C genome. It is responsible for proteolytic processing of the entire downstream region of the HC polyprotein, catalyzing cleavage at the NS3/NS4a, NS4a/NS4b, NS4b/NS5a, and NS5a/NS5b sites to release the mature NS3, NS4a, NS4b, NS5a, and NS5b proteins. For proper function, NS3 requires NS4a as a cofactor, but, interestingly enough, NS3 also cleaves the NS4a protein. The molecular weight of the monomer NS3P is 70 kDa.
<b>Species</b>	HCV
<b>Purity</b>	> 95 % by SDS-PAGE. This antigen is purified by proprietary chromatographic techniques. Purity: >95% by SDS-PAGE.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	SDS-PAGE WB ELISA
<b>Bio-activity</b>	Active hepatitis c virus Hepatitis C Virus NS3 protein fragment is immunoreactive with sera of HCV-infected individuals.
<b>Format</b>	Liquid
<b>Buffer</b>	Preservative: None Constituents: 50% Glycerol, 0.2% Triton-X-100, 1.5M Urea, 25mM Tris HCl, pH 8

<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.

## 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>	Hepatitis C Virus NS3; NS3; NS3P; p70; Serine protease/NTPase/helicase