



# Recombinant HCV Core, Nonstructural Protein 3, Nonstructural Protein 4 (DAGA-045)

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

## PRODUCT INFORMATION

### Antigen Description

HCV 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 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>Purity</b>	SDS-PAGE. >90
<b>Conjugate</b>	Unconjugated
<b>Format</b>	Liquid
<b>Concentration</b>	Batch dependent - please inquire should you have specific requirements.
<b>Size</b>	1 mg
<b>Buffer</b>	PH7.4 20mM PBS
<b>Preservative</b>	None
<b>Storage</b>	2-8°C short term, -20°C long term

# BACKGROUND

**Keywords**

Core protein p19; HCCAg; HCV core antigen; HCV core protein; Hepatitis C Virus core protein; HCV Core, NS3, NS4

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