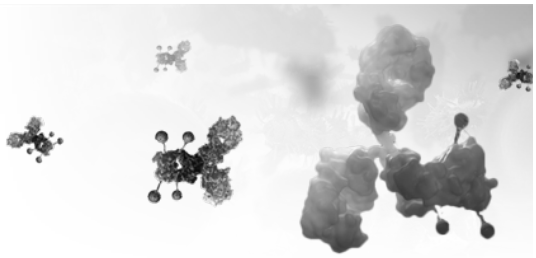

Recombinant HCV Active Nonstructural Protein 3 (aa 1450 - 1643) (DAG-P2767)

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

PRODUCT INFORMATION

Product Overview	Active hepatitis c virus Hepatitis C Virus NS3 protein fragment
Antigen Description	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.
Species	HCV
Purity	> 95 % by SDS-PAGE.This antigen was purified by proprietary chromatographic techniques.
Conjugate	Unconjugated
Applications	WB ELISA
Bio-activity	This protein is immunoreactive with sera of HCV-infected individuals.
Format	Liquid
Buffer	Preservative: None Constituents: 8M Urea, 20mM Tris HCl, 10mM Beta mercaptoethanol, pH 8.0
Preservative	None

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze/thaw cycles.

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

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