

Recombinant HCV NS3 Protein

Cat. No. NS3-37H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This recombinant protein contains immunodominant regions of HCV NS3 protein with a MW of 40 kDa. It is recognized by positive samples in ELISA tests.
Species	HCV
Source	E.coli
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.
Form	Affinity purified, liquid

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Molecular Mass	40 kDa
Purity	>95% pure by SDS-PAGE
Applications	Suitable for use in ELISA, Lateral Flow, WB, and other immune tests.
Storage	Upon receipt, store at 2-8 centigrade.
Storage Buffer	Tris-buffer, pH 8.0
Preservative	0.1% ProClin 300
GENE INFORMATION	
Synonyms	NS3; HCV NS3; Hepatitis C Virus NS3

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