

Recombinant Hepatitis C Virus NS3 (aa 1450-1643)

Catalog No.	CSI15774A	Quantity:	100 µg
	CSI15774B		0.5 mg
	CSI15774C		1.0 mg

Description: HCV is a small 50 nm, enveloped, single-stranded, positive sense RNA virus in the family Flaviviridae.

HCV has a high rate of replication with approximately one trillion particles produced each day in an infected individual. Due to lack of proofreading by the HCV RNA polymerase, the HCV has an exceptionally high mutation rate, a factor that may help it elude the host's immune response. Hepatitis C virus is classified into six genotypes (1-6) with several subtypes within each genotype. The preponderance and distribution of HCV genotypes varies globally. Genotype is clinically important in determining potential response to interferon-based therapy and the required duration of such therapy. Genotypes 1 and 4 are less responsive to interferon-based treatment than are the other genotypes (2, 3, 5 and 6).

The *E. coli* derived 22 kDa recombinant protein contains the HCV NS3 genotype 1b immunodominant regions, amino acids 1450-1643. The protein is fused with b-galactosidase (114 kDa) at N-terminus, pI 5.43.

Source: *E. coli*

Formulation: 20 mM Tris-Hcl pH-8, + 8 M urea + 10 mM B-ME.

Purity: HCV NS3 protein is >95% pure as determined by 10% PAGE (coomassie staining).

Purification Method: HCV NS3 protein was purified by proprietary chromatographic technique.

Specific Activity: Immunoreactive with sera of HCV-infected individuals.

Storage & Stability: HCV NS3 although stable at 4°C for 1 week, should be stored below -18°C.
Please prevent freeze thaw cycles.

Applications: HCV NS3 antigen is suitable for ELISA and Western blots, excellent antigen for detection of HCV with minimal specificity problems.

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