

Recombinant HCV/Hepatitis C Virus (NS4) a+b (aa 1658-1863) Biotin

Catalog No.	CSI15720A	Quantity:	100 µg
	CSI15720B		0.5 mg
	CSI15720C		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 19 kDa recombinant protein Biotin labeled contains the HCV NS4 Genotype 1b immunodominant regions, amino acids 1658-1863. The protein is fused with b-galactosidase (114 kDa) at N-terminus.

Source: *E. coli*

Molecular Weight: 19 kDa

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

Purity: HCV NS4 a+b Biotin protein is >95% pure as determined by 10% PAGE (coomassie staining).

Purification Method: Purified by proprietary chromatographic technique.

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

Storage & Stability: HCV NS4 a+b Biotin although stable at 4°C for 1 week, should be stored below -18°C. **Please prevent freeze thaw cycles.**

Applications: HCV NS4 a+b Biotin antigen in ELISA and Western blots, excellent antigen for detection of HCV with minimal specificity problems.

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