

Recombinant Hepatitis C Virus NS4 a+b (a.a. 1658-1863), Biotin-Conjugated

DAG3474 HCV

Lot. No. (See product label)

PRODUCT INFORMATION

Product overview	Recombinant Hepatitis C Virus NS4 a+b (a.a. 1658-1863), Biotin-Conjugated
Antigen 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
Description	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
Species	HCV
Specificity	Immunoreactive with sera of HCV-infected individuals.
Tag	Biotin
Form	20 mM Tris-Hcl pH 8 + 8 M urea + 10 mM B-ME.
Protein length	a.a. 1658-1863
purification	Purified by proprietary chromatographic technique.
Purity	HCV NS4 a+b Biotin protein is >95% pure as determined by 10% PAGE (coomassie staining).
Applications	HCV NS4 a+b Biotin antigen in ELISA and Western blots, excellent antigen for detection of HCV with minimal specificity problems.

PACKAGING

Storage	HCV NS4 a+b Biotin although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.
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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 proteases into three major structural proteins and several non structural proteins necessary for viral replication. Hepatitis C virus (HCV) causes most cases of non-A, non-B hepatitis and results in most HCV infected people developing chronic infections, liver cirrhosis and hepatocellular carcinoma. T cell responses, including interferon-gamma production are severely suppressed in chronic HCV patients.
Keywords	Hepatitis C Virus nonstructural antigen 4; Non structural protein 4A; Non structural protein 4B; NS4A; NS4B; p27; p8; Flaviviridae; Hepacivirus

REFERENCES

1. Tellinghuisen TL, Paulson MS, Rice CM. The NS5A protein of bovine viral diarrhea virus contains an essential zinc-binding site similar to that of the hepatitis C virus NS5A protein. J Virol. Aug 2006;80(15):7450-8.

