

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

DAG3498 HCV

Lot. No. (See product label)

PRODUCT INFORMATION

Product overview	Recombinant Hepatitis C Virus NS4 a+b (a.a. 1658-1863), Rhodamine-Conjugated
Antigen Description	NS4 A/B are two of the seven nonstructural (NS) proteins making up the HCV polyprotein. The NS proteins recruit the viral genome into an RNA replication complex, which is associated with rearranged cytoplasmic membranes. NS4A acts as a cofactor with the N
Description	The E.coli derived 19 kDa recombinant protein rhodamine labeled contains the HCV NS4 immunodominant regions, amino acids 1658-1863. The protein is fused with bgalactosidase (114 kDa) at N-terminus
Source	E. coli
Species	HCV
Specificity	Immunoreactive with sera of HCV-infected individuals
Conjugate	Rhodamine
Form	20 mM Tris-HCl, pH 8 + 8 M urea and 10 mM B-ME.
Protein length	a.a. 1658-1683
purification	Purified by proprietary chromatographic technique.
Purity	Protein is >95% pure as determined by 10% PAGE (coomassie staining).
Applications	Antigen in ELISA and Western blots, excellent antigen for detection of HCV with minimal specificity problems

PACKAGING

Storage	HCV NS4 a+b Rhodamine 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	HCV; HCV NS4-a+b; HCV NS4; HCV NS4a; HCV NSb; 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.

