

Recombinant Hepatitis C Virus NS5(Genotype-3b), GST-tagged

DAG2357 *Hepatitis C Virus*
Lot. No. (See product label)

PRODUCT INFORMATION

Product overview	The E.coli derived recombinant protein contains the HCV NS5 Genotype 3b immunodominant regions, amino acids 2212-2313. The protein is fused to a GST-tag at N-terminus.
Antigen Description	NS5 (non structural protein 5) may play a role in the viral RNA replication of the Hepatitis C Virus. NS5A is a ~56 kDa pleiotropic protein with key roles in both viral RNA replication and modulation of the physiology of the host cell. It's exact role is not currently known. NS5B (non-structural protein 5B) is an RNA-dependant RNA polymerase responsible for replication of the hepatitis C viral genome, and is currently a principal target for chemotherapeutic inhibition of HCV replication
Source	E. coli
Species	Hepatitis C Virus
Tag	GST
Form	Each vial contains 100 µg of lyophilized protein in 1.5M urea, 25 mM Tris-HCl, pH-8, 0.2% Triton-X & 50% Glycerol.
AA Sequence	a.a. 2212-2313
Purity	>95% , based on SDS PAGE
Applications	WB standard, antibody ELISA, immunogen, etc.

PACKAGING

Storage	Before reconstitution, stable for 1 year at -20°C from the date of shipment. After reconstitution, stable for a month at 4°C. Nonhazardous. No MSDS required
Concentration	N/A
Dilutions	with 100 µl of Millipore water.

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. Several different genotypes of HCV with slightly different genomic sequences have since been identified that correlate with differences in response to treatment with interferon alpha.
Keywords	HCV NS5; Hepatitis virus NS5A; Non structural protein 5A; NS5A; p56; NS5B; HCV-2 NS5; Hepatitis C Virus NS5, genotype 3b; 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.