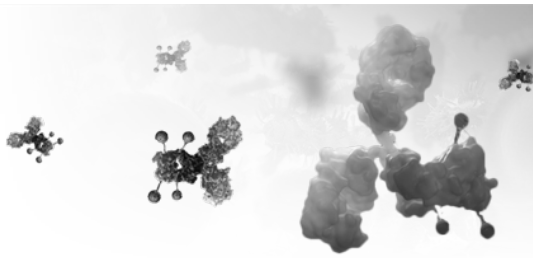

Recombinant HCV Nonstructural Protein 5 (a.a 2061-2302) [GST, Biotin] (DAG1440)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Recombinant HCV NS5 protein fused to a GST tag at N-terminus was expressed in E. coli and purified by proprietary chromatographic technique.
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 (2008). 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
Species	HCV
Purity	> 95% pure as determined by 10% PAGE (coomassie staining).
Conjugate	GST, Biotin
Applications	HCV NS5 Biotin antigen is suitable for ELISA and Western blots, excellent antigen for detection of HCV with minimal specificity problems.
Size	100 µg
Buffer	1.5 M urea; 25 mM Tris-HCl pH 8.0; 0.2% Triton-X; 50% Glycerol.
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

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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 C virus non structural protein 5; Hepatitis C virus nonstructural protein 5; Hepatitis C Virus NS5; HCV NS5 Genotype 2a; Hepatitis C Virus NS5 Genotype 2a

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