

## Recombinant Hepatitis C Virus NS5 (a.a. 2212-2313), genotype 1, GST-tagged

Cat.No:DAG506

Lot. No. (See product label)

### PRODUCT INFORMATION

<b>Storage</b>	Aliquot and store at –20oC. Avoid multiple freeze/thaw cycles.
<b>Antigen Description</b>	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.
<b>Source</b>	E. coli
<b>Buffer</b>	50mM Tris-HCl, 5mM EDTA, pH 8.0
<b>Concentration</b>	1mg/ml
<b>Applications</b>	Suitable for use in ELISA and Western blot. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
<b>Form</b>	Purified, Liquid
<b>Preservative</b>	None
<b>Purity</b>	>95% pure (10% PAGE coomassie staining). S-Sepharose, Ceramic Hydroxyapatite and Affinity Purification
<b>Key words</b>	HCV NS5; Hepatitis virus NS5A; Non structural protein 5A; NS5A; p56; NS5B; HCV-1 NS5; Hepatitis C Virus NS5, genotype 1; Flaviviridae; Hepacivirus

### Background

<b>Introduction</b>	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.
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