# Recombinant Hepatitis C Virus HCV4_gp1 protein, GST-tagged

**Cat. No.** HCV4_gp1-101H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | The E.coli derived recombinant protein contains the HCV core nucleocapsid immunodominant regions, amino acids 2-119. The protein is fused to a GST tag at N-Terminus. |
| **Species** | HCV |
| **Source** | E.coli |
| **ProteinLength** | amino acids 2-119 |
| **Description** | HCV is a small 50nm, enveloped, single-stranded, positive sense RNAvirus 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 the HCV RNA polymerase, the HCV has an exceptionally high mutation rate, a factor that may help it elude the host's immune response. Hepatitis C virus is classified into six genotypes(1-6) with several subtypes within each genotype. The preponderance and distribution of HCV genotypes varies globally. Genotype is clinically important in determining potential response to interferon-based therapy and the required duration of such therapy. Genotypes 1 and 4 are less responsive to interferon-based treatment than are the other genotypes (2, 3, 5 and 6). |
| **Form** | 50mM Tris-HCl, pH-8, 60mM NaCl, 10mM glutathione, 0.25% sarkosil & 50% glycerol. |
| **Purity** | HCV Core Genotype-4 protein is >95% pure as determined by 10% PAGE |

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| | (coomassie staining). |
| **Applications** | HCV Core Genotype-4 atigen is suitable for ELISA and Western blots, excellent antigen for detection of HCV with minimal specificity problems. |
| **Usage** | The products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals. |
| **Specificity** | Immunoreactive with sera of HCV-infected individuals. |
| **Storage** | HCV Core Genotype-4 although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles. |
| **Shipping** | Ice Packs |

## GENE INFORMATION

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| **Gene Name** | HCV4_gp1 polyprotein [ Hepatitis C virus genotype 4 ] |
| **Official Symbol** | HCV4_gp1 |
| **Synonyms** | HCV4_gp1; polyprotein; protein F; core protein; E1 protein; E2 protein; p7 protein; NS2 protein; NS3 protease/helicase; NS4A protein; NS4B protein; NS5A protein; NS5B RNA-dependent RNA polymerase; protein F |
| **Gene ID** | 11027168 |
| **Protein Refseq** | YP_001469632.1 |
| **UniProt ID** | O39929 |

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