

## Recombinant Hepatitis C Virus HCVgp1 protein, &beta;-gal-tagged

Cat. No. HCVgp1-110H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | The E.coli derived 22kDa recombinant protein contains the HCV NS3 genotype 1b immunodominant regions, amino acids 1450-1643. The protein is fused with b-galactosidase (114kDa) at N-terminus, pI 5.43.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | HCV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | amino acids 1450-1643                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | 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). |
| <b>Form</b>             | 20mM Tris-HCl pH-8, 8M urea & 10mM B-ME.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | 22kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>       | HCV NS3 protein is >95% pure as determined by 10% PAGE (coomassie staining).                                                                                                   |
| <b>Applications</b> | HCV NS3 antigen is suitable for ELISA and Western blots, excellent antigen for detection of HCV with minimal specificity problems.                                             |
| <b>Usage</b>        | 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. |
| <b>Specificity</b>  | Immunoreactive with sera of HCV-infected individuals.                                                                                                                          |
| <b>Storage</b>      | HCV NS3 although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.                                                                    |
| <b>Shipping</b>     | Ice Packs                                                                                                                                                                      |

## GENE INFORMATION

|                        |                                                                                                                                                                                        |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | HCVgp1 polyprotein [ Hepatitis C virus ]                                                                                                                                               |
| <b>Official Symbol</b> | HCVgp1                                                                                                                                                                                 |
| <b>Synonyms</b>        | polyprotein; core protein; E1 protein; E2 protein; p7 protein; NS2 protein; NS3 protease/helicase; NS4A protein; NS4B protein; NS5A protein; NS5B RNA-dependent RNA polymerase; HCVgp1 |
| <b>Gene ID</b>         | 951475                                                                                                                                                                                 |
| <b>Protein Refseq</b>  | NP_671491.1                                                                                                                                                                            |

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