Recombinant Hepatitis C Virus HCVgp1 protein, GST-tagged

Cat. No. HCVgp1-112H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The E.coli derived recombinant protein contains the HCV NS3 immunodominant regions, amino acids 1192-1459. The protein is fused to a GST tag at N-Terminus.
Species	HCV
Source	E.coli
ProteinLength	amino acids 1192-1459
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	1.5M urea, 25mM Tris-HCl pH-8, 0.2% Triton-X & 50% Glycerol.
Purity	Protein is >95% pure as determined by 10% PAGE (coomassie staining).
Applications	HCV NS3 Genotype-1a antigen is suitbale for ELISA and Western blots, excellent

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	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 NS3 Genotype-1a although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.
Shipping	Ice Packs

GENE INFORMATION

Gene Name	HCVgp1 polyprotein [Hepatitis C virus]
Official Symbol	HCVgp1
Synonyms	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
Gene ID	951475
Protein Refseq	NP_671491.1

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