Recombinant Hepatitis C Virus HCVgp1 protein, His-tagged

Cat. No. HCVgp1-111H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HCV NS3 Genotype 1a produced in E.coli is a non-glycosylated polypeptide chain having a molecular mass of 47.8kDa and fused to a His tag at N-terminus.
Species	HCV
Source	E.coli
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	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized from 1mg/ml in 20mM sodium carbonate pH-9.6.
Molecular Mass	47.8kDa
Purity	Greater than 95.0% as determined by SDS-PAGE.

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Usage	The products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
Stability	HCV NS3 although stable at room temperature for 4 weeks, should be stored below -18°C. Please prevent freeze thaw cycles.
Solubility	It is recommended to reconstitute the lyophilized HCV NS3 in sterile 18M-cm H2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

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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