

Recombinant Hepatitis C Virus HCVgp1 protein, β-gal-tagged

Cat. No. HCVgp1-87H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The E.coli derived recombinant protein contains the HCV core nucleocapsid genotype 1b, immunodominant regions, amino acids 2-192, 22kDa. The protein is fused with b-galactosidase (114kDa) at N-terminus.
Species	HCV
Source	E.coli
ProteinLength	amino acids 2-192
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	20mM Tris HCl pH-8, 8M urea and 10mM b-mercaptoethanol.
Molecular Mass	22kDa

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AA sequence	mstnkpqrktkrntnrrpqdvkfpvgvgqivggvylprrgprlgvratrktstersqprgrrqpikarrpegtrwaqpgyp wplygnegcgwagwllsprgsrpswgptdprrrsrnlgkvidtltcgfadlmgyiplvgaplggaaralahgvrvedgv nyatgnlpgcsfsifllalscltvp.
Purity	HCV-Core Protein is >95% pure as determined by 10% PAGE (coomassie staining).
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 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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