

Recombinant Hepatitis C Virus HCVgp1 protein, GST-tagged

Cat. No. HCVgp1-143H Lot. No. (See product label)

SPECIFICATION

Product Overview	The E.coli derived recombinant protein contains the HCV NS5 Genotype1a immunodominant regions, amino acids 2322-2423 having a total Mw of 38.34kDa which includes a 26KDa GST tag.
Species	HCV
Source	E.coli
ProteinLength	amino acids 2322-2423
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, pH 8 & 5mM EDTA.
Molecular Mass	38.34kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	HCV NS5 Genotype-1a protein is >95% pure as determined by 10% PAGE (coomassie staining).
Applications	HCV NS5 Genotype-1a antigen 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 NS5 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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