Recombinant Hepatitis C Virus HCV4M protein, His-tagged

Cat. No. HCV4M-135H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The E.Coli derived 66kDa recombinant HCV NS4 Mosaic protein fused to a His tag is an artificial mosaic polypeptide composite constructed from diagnostically relevant antigenic regions derived from the NS4 region of different HCV genotypes.The protein contains region 5-1-1 and region 59 containing sequence 1789 - 1867 aa and sequence 2322 - 2423 aa of the HCV NS4 genotype lb and 10 other diagnostically relevant antigenic regions derived from the NS4 region of different HCV genotypes.
Species	HCV
Source	E.coli
ProteinLength	1789-1867;2322-2423 a.a.
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).

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Form	50mM Tris, pH-8.0, 5mM EDTA.
Molecular Mass	66kDa
Purity	Protein is >95% pure as determined by 10% PAGE (coomassie staining).
Applications	Antigen in 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 NS4 Mosaic although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.
Shipping	Ice Packs

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