

HCV Core 22kDa

Description: 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 (114 kDa) at N-terminus.

Catalog #: HCPS-248

For research use only.

Amino Acid Sequence: mstnkpqrk tkrntnrrpq dvkfpgvgqi vggvylpr gprlgvratr ktsersqprg rrpipkarr pegrtwaqpg ypwplygneg cgwagwllsp rgsrpswgpt dprrrsnlg kvdtltcgf adlmgyiplv gaplggaara lahgvrld gvnyatgnlp gcsfsiflla llscitvpa.

Purity: HCV-Core Protein is >95% pure as determined by 10% PAGE (coomassie staining).

Purification Method:

HCV-Core protein was purified by proprietary chromatographic technique.

Specificity:

Immunoreactive with sera of HCV-infected individuals.

Formulation:

20mM Tris Hcl pH-8, 8M urea and 10mM -mercaptoethanol.

Usage:

NeoBiolab's 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.

Introduction:

HCV is a small 50nm, enveloped, single-stranded, positive sense RNA virus 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).

Storage:

HCV-Core although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

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