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HCV NS5 Genotype-1b

Catalog #:HCPS-235

For research use only.

Description: The E.coli derived recombinant protein contains the HCV NS5 Genotype1b immunodominant regions, amino acids 2212-2313. The protein is fused to a GST tag at N-terminus.

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

Purification Method:
HCV NS5 Genotype-1b protein was purified by proprietary chromatographic technique.

Specificty:
Immunoreactive with sera of HCV-infected individuals.

Formulation:
1.5M urea, 25mM Tris-HCl pH 8.0, 0.2% Triton-X and 50% Glycerol.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Applications:
HCV NS5 Genotype-1b antigen is suitable for ELISA and Western blots, excellent antigen for detection of HCV with minimal specificity problems.

Introduction:
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).

Storage:
HCV NS5 Genotype-1b althoµgh stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

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