

□ Cat # RP-458 Recombinant Hepatitis C Virus Nucleocapsid (core) Genotype-3/10 **Size:** □ 100 ug

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 and6).

DESCRIPTION:

The E.coli derived recombinant protein contains the HCV core nucleocapsid immunodominant regions, amino acids 2-119

METHOD:

Purified by proprietary chromatographic technique.

PURITY:

Protein is >95% pure as determined by 10% PAGE (coomassie staining).

FORMULATION:

50mM Tris-HCl, pH 8.0, 60mM NaCl, 10mM glutathione, 0.25% sarkosil and 50% glycerol

STORAGE:

Protein is shipped at ambient temperature.
Upon arrival, Store at -20°C.

STABILITY:

Five years frozen. One month in solution at room temperature.

SPECIFICITY:

Immunoreactive with sera of HCV-infected individuals

Usage:

This item is for LABORATORY ESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals. If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4oC for ~1 week or aliquots in suitable size and store at -20oC for long term storage..

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