

Product Data Sheet

□ Cat # RP-472

Recombinant Hepatitis C Virus Nucleocapsid (core) Genotype-3a

Size: □ 100 ug □ 500 ug

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).

DESCRIPTION:

The E. coli derived recombinant protein contains the HCV NS3 immunodominant regions, amino acids 1192-1459.

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% Sarkosyl 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.

APPLICATIONS:

Antigen in ELISA and Western blots, excellent antigen for detection of HCV with minimal specificity problems.

Usage:

This item is for LABORATORY RESEARCH 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 µl water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

Rev. 80310F

Alpha Diagnostic Intl Inc., 6203 Woodlake Center Dr, San Antonio, TX 78244, USA;

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400 Fax: +91-11-42208444 Email: customerservice@lifetechindia.com Website: www.lifetechindia.com