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## Product Data Sheet

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Product Name: HCV NS3 Genotype-1b C33C

Cat. No.: GP26427

Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	withIcePacks
Formulation	HCV NS3 Genotype-1b C33C solution contains 50mM potassium phosphate buffer.		

### 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). HCV NS3 (genotype 1b) contains 2 domains which are serine proteinase and helicase. C33c is a fragment of NS3 containing the most important epitopes recognized by HCV antibody.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

Recombinant Hepatitis C Virus NS3 Genotype-1b C33C (40-315 aa) produced in E. coli having 226 aa. Recombinant Hepatitis C Virus NS3 Genotype-1b C33C is fused to a 6xHis tag at C-Terminus and purified by proprietary chromatographic technique.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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