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## Product Data Sheet

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Product Name: HCV NS4 a+b, Biotin  
Cat. No.: GP25288  
Batch No.: 1

### Product Data

Purity	>98%	Source	
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Formulation	(1mg/ml) 20mM Tris-HCl pH 8 and 8M urea.		

### 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).

### Stability

HCV NS4 a+b Biotin although stable at 4°C for 1 week, should be stored below -18°C .Please prevent freeze thaw cycles.

### Background

The E.coli derived 19 kDa recombinant protein Biotin labeled contains the HCV NS4 Genotype 1b immunodominant regions, amino acids 1658-1863. The protein is fused with b-galactosidase (114 kDa) at N-terminus.

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

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