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## Product Data Sheet

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Product Name: HCV 8th Generation

Cat. No.: GP26429

Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	withIcePacks
Formulation	HCV 8th generation protein 1mg/ml solution contains PBS, 25mM K <sub>2</sub> CO <sub>3</sub> and 3M urea		

### Introduction

HCV is a small 50nm, enveloped, single-stranded, positive sense RNA virus belongs to the Flaviviridae family. 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). Hepatitis C Virus 8th Generation is a mosaic fusion protein which contains multiple gene cassettes including env - core - NS3 - NS4 - NS5 and covers genotype I, II and III.

### 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

The E. Coli derived HCV Eighth generation antigen recombinant mosaic fusion protein contains multiple gene including env - core - NS3 - NS4 - NS5 and covers genotype I, II and III. The protein size is about 80kDa with GST tag at N-terminal

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

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