

## Recombinant Hepatitis C virus E1

DAG3203 HCV

Lot. No. (See product label)

### PRODUCT INFORMATION

<b>Product overview</b>	Recombinant Hepatitis C virus E1
<b>Antigen Description</b>	Envelope glycoproteins E1 and E2 are involved in virus attachment to the host cell as well as in virus endocytosis and fusion with host membrane. E2 inhibits human EIF2AK2/PKR activation, preventing the establishment of an antiviral state. E2 is a viral I
<b>Description</b>	Recombinant Hepatitis C virus E1
<b>Source</b>	E. coli
<b>Species</b>	HCV
<b>Molecular Mass</b>	27 kDa
<b>AA Sequence</b>	NA
<b>Purity</b>	~ 95% by SDS-PAGE
<b>Applications</b>	ELISA
<b>Usage</b>	This product is for research use only. Not for the diagnosis of procedures

### PACKAGING

<b>Storage</b>	-20 C
<b>Buffer</b>	25 mM Tris-HCl, 0.1% SDS, pH 8.3

### BACKGROUND

<b>Introduction</b>	Hepatitis C Virus is a positive, single stranded RNA virus in the Flaviviridae family. The genome is approximately 10,000 nucleotides and encodes a single polyprotein of about 3,000 amino acids. The polyprotein is processed by host cell and viral proteases into three major structural proteins and several non structural proteins necessary for viral replication. Several different genotypes of HCV with slightly different genomic sequences have since been identified that correlate with differences in response to treatment with interferon alpha.
<b>Keywords</b>	HCV E1; Hepatitis virus E1; E1; Hepatitis C Virus E1; envelope protein 2; Flaviviridae; Hepacivirus; Envelope glycoproteins E1; Envelope; glycoproteins

### REFERENCES

1. Garrone P et al. A prime-boost strategy using virus-like particles pseudotyped for HCV proteins triggers broadly neutralizing antibodies in macaques. *Sci Transl Med* 3:94ra71 (2011).
2. Ivanov AV et al. Hepatitis C Virus Proteins Activate NRF2/ARE Pathway by Distinct ROS-Dependent and Independent Mechanisms in HUH7 Cells. *PLoS One* 6:e24957 (2011).