

## Product datasheet

# Recombinant hepatitis c virus Hepatitis C Virus Genotype 6 NS3 protein ab67974

### Overview

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<b>Product name</b>	Recombinant hepatitis c virus Hepatitis C Virus Genotype 6 NS3 protein
<b>Protein length</b>	Protein fragment

### Description

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<b>Nature</b>	Recombinant
<b>Source</b>	Escherichia coli
<b>Amino Acid Sequence</b>	
<b>Species</b>	Hepatitis C virus
<b>Amino acids</b>	1356 to 1459
<b>Tags</b>	GST tag N-Terminus

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab67974** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Biological activity</b>	This protein is immunoreactive with sera of HCV-infected individuals.
<b>Applications</b>	Western blot ELISA
<b>Purity</b>	> 95 % SDS-PAGE. ab67974 was purified by proprietary chromatographic techniques.
<b>Form</b>	Liquid

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. Preservative: None Constituents: 50% Glycerol, 0.2% Triton-X, 1.5M Urea, 25mM Tris HCl, pH 8.0 This product is an active protein and may elicit a biological response in vivo, handle with caution.
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## General Info

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### Relevance

HCV 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 including NS3, and several non-structural proteins necessary for viral replication. The NS3 part of the polyprotein displays three enzymatic activities: serine protease, NTPase and RNA helicase. The NS3 serine proteinase (NS3P) is a non-structural hepatitis C protein responsible for proteolytic processing of other non-structural proteins; because of this, it is also the most extensively studied protein of the Hepatitis C genome. It is responsible for proteolytic processing of the entire downstream region of the HC polyprotein, catalyzing cleavage at the NS3/NS4a, NS4a/NS4b, NS4b/NS5a, and NS5a/NS5b sites to release the mature NS3, NS4a, NS4b, NS5a, and NS5b proteins. For proper function, NS3 requires NS4a as a cofactor, but, interestingly enough, NS3 also cleaves the NS4a protein.

### Cellular localization

Endoplasmic reticulum membrane; Peripheral membrane protein (By similarity).

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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