

Product datasheet

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

Overview

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

Description

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

Specifications

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.

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

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.2% Triton-X-100, 9% Urea, 0.395% Tris HCl, 50% Glycerol This product is an active protein and may elicit a biological response in vivo, handle with caution.
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General Info

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).

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