

Product datasheet

Recombinant Hepatitis C Virus genotype 1a NS5 protein ab68618

Overview

Product name	Recombinant Hepatitis C Virus genotype 1a NS5 protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Escherichia coli

Amino Acid Sequence

Amino acids	2322 to 2423
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Specifications

Our [Abpromise guarantee](#) covers the use of **ab68618** in the following tested applications.

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

Biological activity	ab68618 is immunoreactive with sera of HCV-infected individuals.
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Applications	Western blot ELISA
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Purity	> 95 % SDS-PAGE. ab68618 was purified by a proprietary chromatographic technique.
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Form	Liquid
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Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
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Preservative: None
 Constituents: 50mM Tris, 5mM EDTA, pH 8

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General intro

Relevance

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. NS5A is a ~56 kDa pleiotropic protein with key roles in both viral RNA replication and modulation of the physiology of the host cell. It's exact role is not currently known (2008). NS5B (non-structural protein 5B) is an RNA-dependant RNA polymerase responsible for replication of the hepatitis C viral genome, and is currently a principal target for chemotherapeutic inhibition of HCV replication. Hepatitis C virus (HCV) can cause chronic hepatitis, cirrhosis and hepatocellular carcinoma. At present there is no vaccine effective against HCV.

Cellular localization

Endoplasmic reticulum membrane

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