

Product datasheet

Recombinant Hepatitis C Virus Core 2a protein  
(Tagged) ab198063

2 Images

Description	
Product name	Recombinant Hepatitis C Virus Core 2a protein (Tagged)
Biological activity	<b>Specific Activity:</b> 93 pmole/min/µg  <b>Assay conditions:</b> Assay was done in 100 µl HCV assay buffer containing 50 mM Tris, pH7.4, 150 mM NaCl, 5 mM DTT, 10% glycerol, and 5 µM HCV substrate peptide. Reaction was monitored at room temperature for 20 min continuously at ex350/em500.
Purity	> 90 % SDS-PAGE.
Expression system	Escherichia coli
Accession	<b><u>FJ393024</u></b>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Sequence	MDYKDDDDKHHHHHHGCVSIIGRLHVNGSGSITAYAQQTR GLLGAINVSM TGRDRTEQAGEVQILSTVSQSFLGTTISGVLWTVYHGAGN KTLAGLRGPV TQMYSSAEGDLVGWPSPPGTKSLEPCKCGAVDLYLVTR NADVIPARRRGD KRGALLSPRPISLTKGSSGGPVLCPRGHVVGLFRAAVCS RGVAKSIDFIP VETLDVVTRS
Predicted molecular weight	22 kDa including tags
Tags	His-DDDDK tag N-Terminus
Additional sequence information	Fusion protein of amino acids 21-32 of NS4A, linker (4 amino acids) and amino acids 3-181 of NS3.

Specifications	
Our <b>Abpromise guarantee</b> covers the use of <b>ab198063</b> in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
Applications	Functional Studies

## SDS-PAGE

### Form

Liquid

### Additional notes

Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances.

It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses.

## Preparation and Storage

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### Stability and Storage

Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.63% Tris HCl, 2.32% Sodium chloride, 0.2% Triton X-100, 0.08% Beta mercaptoethanol, 30% Glycerol (glycerin, glycerine)

100 µg/mL DDDDK peptide

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

## General Info

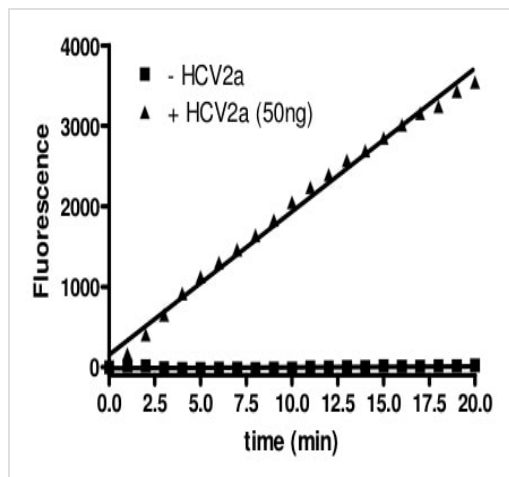
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### Relevance

HCV (Hepatitis C Virus) viral core protein forms the internal viral coat that encapsidates the genomic RNA and is enveloped in a host cell-derived lipid membrane. The hepatitis C virus (HCV) core protein represents the first 177 amino acids of the viral precursor polyprotein and is cotranslationally inserted into the membrane of the endoplasmic reticulum. The N terminus of the core protein is involved in transcriptional repression. There are over 20 different subtypes of Hepatitis C Virus; the preponderance and distribution of HCV genotypes varies globally. HCV Genotype information is important because of the role it plays in predicting HCV medical treatment response and treatment duration. Sustained cure rates (sustained viral response) of 75% or better occur in people with genotypes HCV 2 and 3 in 24 weeks of treatment. Genotypes 1a and 1b, the most prevalent worldwide, have the poorest rates of response to the present treatment regimen, which is a combination of pegylated alfa interferon 2b with ribavirin. HCV core protein is among the most conserved proteins in HCV and is known to induce sensitization of cytotoxic T lymphocytes (CTL). Therefore, it is a prime candidate for a component of a potential HCV vaccine.

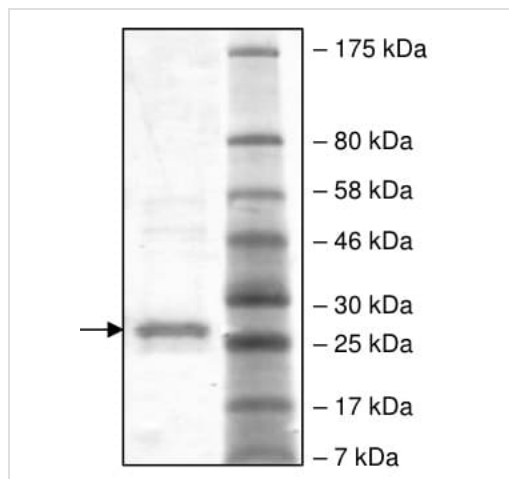
## Images

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Activity assay using ab198063

Functional Studies - Recombinant Hepatitis C Virus  
Core 2a protein (Tagged) (ab198063)



4-20% SDS-PAGE analysis of 2 µg ab198063 with Coomassie staining.

SDS-PAGE - Recombinant Hepatitis C Virus Core  
2a protein (Tagged) (ab198063)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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#### **Terms and conditions**

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