

Product datasheet

Recombinant hepatitis c virus Hepatitis C Virus 1b core antigen protein ab198158

2 Images

Description

Product name	Recombinant hepatitis c virus Hepatitis C Virus 1b core antigen protein	
Biological activity	<p>Specific Activity: ≥ 12 pmole/min/μg</p> <p>Assay was performed in 100 μl HCV assay buffer containing 50 mM Tris, pH 7.4, 150 mM NaCl, 5 mM DTT, 10% glycerol, and 5 μM fluorescently labeled HCV substrate peptide. Reaction was monitored at room temperature for 20 min. continuously at ex350/em500.</p>	
Purity	≥ 90 % SDS-PAGE.	
Expression system	Escherichia coli	
Accession	AF054247	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Hepatitis C virus	
Sequence	<pre>MDYKDDDDKHHHHHHGSSVVIVGRILSGSGSITAYSQQT RVLGCIITSL TGRDKNQVEGEVQVVSTATQSFLATCINGVCWTVYHG AGSKTLGPKGPI TQMYTNVDLVLVGWQAPPGARSMTPCSCGSSDLYLV TRHADVIPVRRRGD SRGSLSPRPVSYLKGSSGGPLLCPSGHVGVFKAA VCTRGVAKAVDFIP VESMETTMRS</pre>	
Predicted molecular weight	22 kDa including tags	
Modifications	mutated R155 K	
Tags	His-DDDDK tag N-Terminus	
Additional sequence information	Fusion protein corresponding to the serine protease NS3 (aa 3-181) and cofactor NS4A (aa 21-32) from Hepatitis C virus genotype 1b.	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab198158** 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	ab198158 is useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

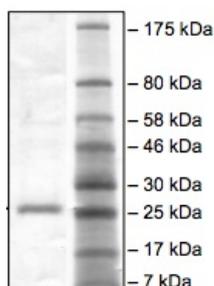
Preparation and Storage

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 100 µg/mL DDDDK peptide This product is an active protein and may elicit a biological response in vivo, handle with caution.
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General Info

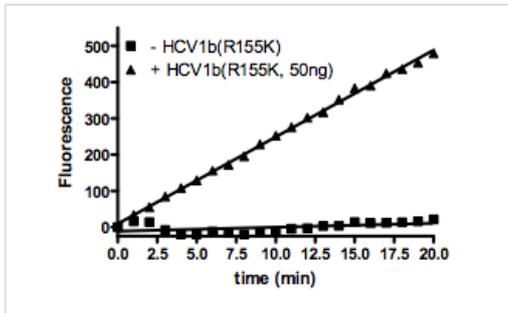
Relevance	HCV (Hepatitis C Virus) viral core protein forms the internal viral coat that encapsidates the genomic RNA and is enveloped in a host cell-derived lipid membrane. The hepatitis C virus (HCV) core protein represents the first 177 amino acids of the viral precursor polyprotein and is cotranslationally 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; HCV type 1b is mostly found in Europe and Asia. The prevalence of HCV type 1b infection has recently decreased, although it still accounts for most HCV-related cirrhosis and hepatocellular carcinoma. High HCV viremia levels and HCV genotype type 1b are independent predictors for poor response to interferon- α therapy. 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.
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Images



SDS PAGE analysis of 2 µg ab198158 on 4-20% gel, with Coomassie staining.

SDS-PAGE - Recombinant hepatitis c virus
Hepatitis C Virus 1b core antigen protein (ab198158)



Activity assay for ab198158.

Functional Studies - Recombinant hepatitis c virus
 Hepatitis C Virus 1b core antigen protein (ab198158)

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

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