

Hepatitis C Virus Core protein Recombinant Protein | HCV core recombinant protein

Hepatitis C Virus Core protein Recombinant

CATALOG #	HOST
AAA76079	E Coli (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)

PRODUCT SYNONYMS

Hepatitis C Virus Core protein; Hepatitis C Virus Core protein Recombinant; hcv; hepatitis; core; HCV core recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Purity/Purification	>95%, as determined by SDS-PAGE.
Form/Format	50mM Tris-HCl, pH-8, 60mM NaCl, 10mM glutathione, 0.25% sarkosil & 50% glycerol.
Sequence Length	74
Host Note	DNA sequence encoding immunodominant fragment of Hepatitis C Virus core protein was expressed in Escherichia Coli.
Molecular Weight Note	Recombinant HCV Core encodes the immunodominant sequences of the HCV nucleocapsid p21 protein. This molecule has a calculated mass of approximately 13kDa. Recombinant HCV Core contains an N terminal GST purification tag and migrates as an approximately 39 kDa protein under non-reducing conditions and reducing conditions in SDS-PAGE.
Preparation and Storage	This protein can be stored in working aliquots at 2 degree - 8 degree C for one month, or at -20 degree C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for HCV core recombinant protein	The capsid is formed by polymerization of the HCV Core protein, a structural viral protein encoded by the 5 end of the HCV open reading frame.1 After translation, host signal peptidases cleave the HCV Core protein from the precursor polyprotein and remove the signal peptide located at its C-terminus. The HCV Core protein is antigenic, interacts with numerous cellular proteins, induces specific cellular and humoral responses, and through various pathways could play an important role in the pathogenesis of HCV infection.
Product Categories/Family for HCV core recombinant protein	Viral Antigens
References	• hepatitis c virus (hcv) infection, monoclonal immunoglobulin specific for HCV Core protein, and plasma-cell malignancy .<i>Blood (ASH Annual Meeting Abstracts)</i>, Nov 2008; 112: 2712. • <i>transcriptional slippage prompts recoding in alternate reading frames in the hepatitis c virus (hcv) core sequence from strain hcv-1</i> .<i>J. Gen. Virol.</i>, Jul 2008; 89: 1569 - 1578. • HCV Core protein interaction with gc1q receptor inhibits th1 differentiation of cd4+ t cells via suppression of dendritic cell il-12 production .<i>J. Leukoc. Biol.</i>, Dec 2007; 82: 1407 - 1419. • hepatitis c virus (hcv) core protein-induced, monocyte-mediated mechanisms of reduced ifn- and plasmacytoid dendritic cell loss in chronic hcv infection .<i>J. Immunol.</i>, Nov 2006; 177: 6758 - 6768. • simultaneous detection of hepatitis c virus (hcv) core antigen and anti-hcv antibodies improves the early detection of hcv infection .<i>J. Clin. Microbiol.</i>, Aug 2005; 43: 3877 - 3883.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1480849
NCBI Official Full Name	hepatitis C virus core protein

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/hepatitis-c-virus-core-protein-recombinant-protein-e-coli/76079>