

Recombinant HCV Nucleocapsid Protein, Biotin-labeled & beta-galactosidase conjugated

Cat. No. Nucleocapsid-749H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The protein contains the HCV core nucleocapsid immunodominant regions, amino acids 2-192, with a molecular weight of 22 kDa and is biotin conjugated. The protein is fused to beta-galactosidase (114 kDa) at the N-terminus. Hepatitis C Virus core proteins are purified by proprietary chromatographic techniques.
Species	HCV
Source	E.coli
ProteinLength	2-192 a.a.
Description	The hepatitis C virus (HCV) core protein represents the first 191 amino acids of the viral precursor polyprotein and is cotranslationally inserted into the membrane of the endoplasmic reticulum (ER). Hepatitis C virus (HCV) core is a viral structural protein; it also participates in some cellular processes, including transcriptional regulation. However, the mechanisms of core-mediated transcriptional regulation remain poorly understood. Hepatitis C virus (HCV) core protein is thought to contribute to HCV pathogenesis through its interaction with various signal transduction pathways. In addition, HCV core antigen is a recently developed marker of hepatitis C infection. It is remarkably efficient at establishing persistent infection, suggesting that it has evolved one or more strategies aimed at evading the host immune response. T cell responses, including interferon-gamma production, are severely suppressed in chronic HCV patients. The HCV core protein has been previously shown to circulate

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

in the bloodstream of HCV-infected patients and inhibit host immunity through an interaction with gC1qR.

Form	20 mM Tris-HCl pH 8.0 and 8 M urea
Molecular Mass	136 kDa
Purity	> 95 % (SDS-PAGE)
Applications	ELISA; Western Blot
Storage	Store at -20 centigrade, avoid freeze/thaw cycles.
Conjugation	Biotin

GENE INFORMATION

Official Symbol	Nucleocapsid
Synonyms	Nucleocapsid

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