

# Recombinant HCV Core protein

Catalog Number: ATGP2766

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-120aa

### UniProt No.

B3TKP0

### NCBI Accession No.

ACE82480

### Alternative Names

Polyprotein, Human Hepatitis C Virus E2 protein fragment

## PRODUCT SPECIFICATION

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### Molecular Weight

15.7 kDa (140aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

HCV-Core protein packages viral RNA to form a viral nucleocapsid, and promotes virion budding. It modulates viral translation initiation by interacting with HCV IRES and 40S ribosomal subunit and also regulates many host cellular functions such as signaling pathways and apoptosis. HCV-Core prevents the establishment of cellular antiviral state by blocking the interferon-alpha/beta (IFN-alpha/beta) and IFN-gamma signaling pathways and by inducing human STAT1 degradation. Recombinant Hepatitis C virus Core protein, fused to His-tag at N-terminus, was expressed in E. coli.

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### Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MSTNPKPQRK TKRNTNRRPQ DVKFPGGGQI VGGVYLLPRR GPRLGVRATR KTSERSQPRG  
RRQPIPKARR PEGRTWAQPG YPWPLYGNEG CGWAGWLLSP RGSRPSWGPT DPRRRSRNLG

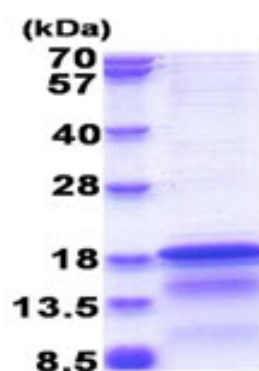
### General References

Taylor D.R., et al. (2001) J. Virol. 75:1265-1273

Kalliampakou K.I., et al. (2015) J. Gen. Virol. 86:1015-1025

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)