

# Recombinant HCV E2 protein

Catalog Number: ATGP2758

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

482-671aa

### UniProt No.

N/A

### NCBI Accession No.

NP\_671491

### Alternative Names

Polyprotein

## PRODUCT SPECIFICATION

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### Molecular Weight

25.4 kDa (226aa)

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

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

### Purity

> 80% 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

E1 and E2 glycoproteins form a heterodimer that is involved in virus attachment to the host cell, virion internalization through clathrin-dependent endocytosis and fusion with host membrane. E1/E2 heterodimer binds to human LDLR, CD81 and SCARB1/SR-BI receptors, but this binding is not sufficient for infection, some additional liver specific cofactors may be needed. The fusion function may possibly be carried by E1. E2 inhibits human EIF2AK2/PKR activation, preventing the establishment of an antiviral state. E2 is a viral ligand for CD209/DC-SIGN and CLEC4M/DC-SIGNR, which are respectively found on dendritic cells (DCs), and on liver

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sinusoidal endothelial cells and macrophage-like cells of lymph node sinuses. These interactions allow capture of circulating HCV particles by these cells and subsequent transmission to permissive cells. Recombinant HCV (Hepatitis C Virus) E2 protein, fused to His-tag at N-terminus, was expressed in *E. coli*.

### Amino acid Sequence

MRGSHHHHHH GMASMTGGGQ MGRDLYDDDD KDRWGSERPY CWHYPPRPCG IVPKSVCGP VYCFTPSPVV  
VGTDDRSGAP TYSWGANDTD VFVLNTRPP LGNWFCTWM NSTGFTKVCG APPCVIGGVG NNTLLCPTDC FRKHPEATYS  
RCGSGPWITP RCMVDYPYRL WHYPCTINYT IFKVRMYVGG VEHRLEAACN WTRGERCDLE DRDRSELSPL LLSTTQ

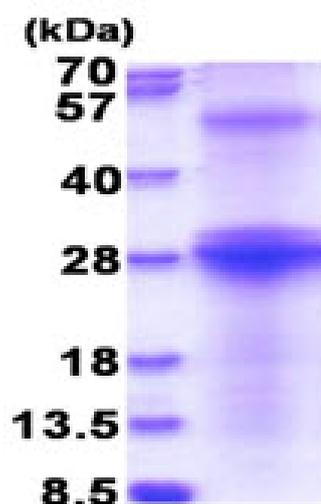
### General References

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)