# Recombinant HCV E2 protein

Catalog Number: ATGP2676

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
2634-2752aa

**UniProt No.**
N/A

**NCBI Accession No.**
NP_671491

**Alternative Names**
Polyprotein

## PRODUCT SPECIFICATION

**Molecular Weight**
17 kDa (155aa) confirmed by MALDI-TOF

**Concentration**
0.25mg/ml (determined by Bradford assay)

**Formulation**
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

**Purity**
> 90% by SDS-PAGE

**Tag**
His-Tag

**Application**
SDS-PAGE

**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

**Description**
Hepatitis C virus genotype 1 is a 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. It 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. NS5B is a RNA-dependent RNA polymerase that plays an essential role in the virus replication. Recombinant HCV (Hepatitis C Virus) NS5b protein, fused to His-

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tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

**Amino acid Sequence**

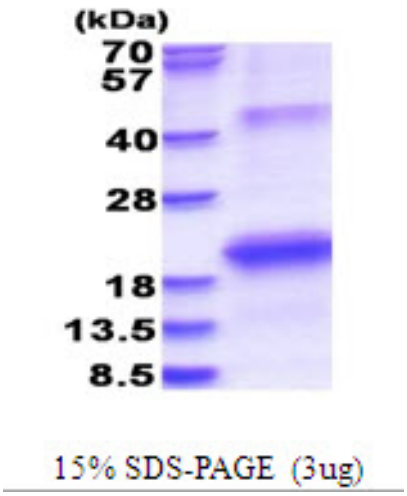
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGS>PMGF SYDTRCFDST VTESDIRTEE AIYQCCDLDP QARVAIKSLT ERLYVGGPLT NSRGENCGYR RCRASGVLTT SCGNTLTCYI KARAACRAAG LQDCTMLVCG DDLVVICESA GVQED

**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**




15% SDS-PAGE (3ug)

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