

Recombinant HCV E2 protein

Catalog Number: ATGP2758

PRODUCT INFORMATION

Expression system

E.coli

Domain

482-671aa

UniProt No.

N/A

NCBI Accession No.

NP_671491

Alternative Names

Polyprotein

PRODUCT SPECIFICATION

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

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
VGTTDRSGAP TYSWGANDTD VFVLNNTRPP LGNWFGCTWM NSTGFTKVCG APPCVIGGVG NNTLLCPTDC FRKHPEATYS
RCGSGPWITP RCMVDYPYRL WHYPCTINYT IFKVRMYVGG VEHRLAACN WTRGERCDLE DRDRSELSPL LLSTTQ

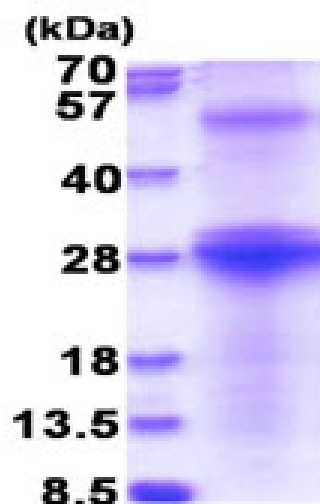
General References

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)