

AR51578PU-S**HCV Envelope glycoprotein E2 (482-671, His-tag) - Purified****Alternate names:**

Hepatitis C Virus NS1, gp68, gp70

Quantity:

0.1 mg

Concentration:

0.25 mg/ml (determined by Bradford assay)

Background:

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 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.

NCBI:[NP_671491](#)**Source:**

E. coli

Format:**State:** Liquid purified protein**Purity:** >80% by SDS - PAGE**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol**Description:**

Recombinant HCV(Hepatitis C Virus) E2 protein, fused to His-tag at N-terminus, was expressed in E.coli.

AA Sequence:MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSERP CWHYPPRCPG IVPKASVCGP
VYCFTSPSPV VGTDRSGAP TYSWGANDTD VFVLLNTRPP LGNWFCTWM NSTGFTKVCV
APPCVIGGVG NNTLLCPTDC FRKHPEATYS RCGSGPWITP RCMVDYPYRL WHYPCTINYT
IFKVRMYVGG VEHRLEAACN WTRGERCDLE DRDRSELSPL LLSTTQ**Molecular weight:** 25.4 kDa (226aa)**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Taylor D.R., et al. (2001) J. Virol. 75:1265-1273 Kalliampakou K.I., et al. (2015) J. Gen. Virol. 86:1015-1025

Pictures:

