

HCV-E2 recombinant protein

HCV-E2, 482-671aa, HCV, His tag, E Coli (Denatured)

CATALOG # AAA48874	HOST E Coli	APPLICATIONS SDS-Page
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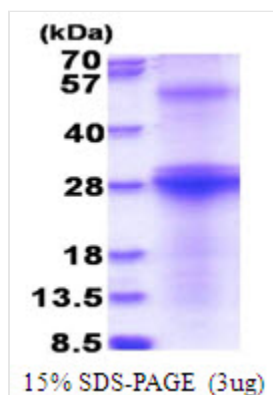
PRODUCT SYNONYMS

HCV-E2; 482-671aa; HCV; His tag; E Coli (Denatured); Polyprotein; HCV-E2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 80% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 0.4M urea, 10% glycerol
Concentration	0.25 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSERPY CWHYPPRPGC IVPKSVCGP VYCFTSPVV VGTTDRSGAP TYSWGANDTD VFVLNNTRPP LGNWFECTWM NSTGFTKVCG APPCVIGGVG NNTLLCPTDC FRKHPEATYS RCGSGPWITP RCMVDYPYRL WHYPCTINYT IFKVRMYVGG VEHRLAECN WTRGERCDLE DRDRSELSPL LLSTTQ
Sequence Length	3011
Applicable Applications for HCV-E2 recombinant protein	SDS-PAGE
Antigen Species	HCV
Tag Information	His-tag
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for HCV-E2 recombinant protein	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. Recombinant HCV (Hepatitis C Virus) E2 protein, fused to His-tag at N-terminus, was expressed in E Coli.
Product Categories/Family for HCV-E2 recombinant protein	Virus
References	Taylor D.R., et al. (2001) J. Virol. 75:1265-1273; Kalliampakou K.I., et al. (2015) J. Gen. Virol. 86:1015-1025;

NCBI AND UNIPROT INFORMATION

NCBI GI #	22129793
NCBI GeneID	951475
NCBI Accession #	NP_671491
NCBI GenBank Nucleotide #	NC_004102.1
Molecular Weight	25.4 kDa (226aa)
NCBI Official Full Name	polyprotein
NCBI Official Symbol	HCVgp1
NCBI Protein Information	polyprotein; core protein; E1 protein; E2 protein; p7 protein; NS2 protein; NS3 protease/helicase; NS4A protein; NS4B protein; NS5A protein; NS5B RNA-dependent RNA polymerase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hcv-e2-recombinant-protein-e-coli-sds-page/48874>