

Recombinant HCV HCVgp1, His-tagged

Cat. No. HCVgp1-265H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HCV-E2, 482-671aa, HCV, His tag, E.coli
Species	HCV
Source	E.coli
ProteinLength	482-671aa
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 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	25.4 kDa (226aa)

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AA Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSERPY CWHYPPRPCG IVPAKSVCGP VYCFTPSPVV VGTTDRSGAP TYSWGANDTD VFVLNNTRPP LGNWFGCTWM NSTGFTKVCG APPCVIGGVG NNTLLCPTDC FRKHPEATYS RCGSGPWITP RCMVDYPYRL WHYPCTINYT IFKVRMYVGG VEHRLEAACN WTRGERCDLE DRDRSELSPL LLSTTQ
Purity	>80% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)

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