

32-5486: Recombinant Hepatitis C Virus E2

Description

Source : Escherichia Coli. Recombinant Hepatitis C Virus E2 produced in E. coli is a single polypeptide chain containing 226 amino acids (aa 482-671) and having a molecular mass of 25.4kDa (NCBI Accession#NP_671491). HCV E2 is fused to a 36 amino acid His-tag at N-terminus. E1 and E2 glycoproteins form a heterodimer which is involved in virus attachment to the host cell, virion internalization via clathrin-dependent endocytosis and fusion with host membrane. E1/E2 heterodimer binds to human LDLR, CD81 and SCARB1/SR-BI receptors, however this binding is insufficient for infection, some additional liver specific cofactors may be required. The fusion function may perhaps be conducted by E1. E2 hinders 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 located on dendritic cells (DCs), and on liver sinusoidal endothelial cells and macrophage-like cells of lymph node sinuses. These interactions allow seizure of circulating HCV particles by these cells and subsequent diffusion to permissive cells.

Product Info

Amount :	20 µg
Purification :	Greater than 80.0% as determined by SDS-PAGE.
Content :	The HCV E2 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid :	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSERPY CWHYPPRPGC IVPAKSVCGP VYCFTPSPVV VGTDRSGAP TYSWGANDTD VFVLNNTRPP LGNWFPGCTWM NSTGFTKVCG APPCVIGGVG NNTLLCPTDC FRKHPEATYS RCGSGPWITP RCMVDYPYRL WHYPCTINYT IFKVRMYVVG VEHRLAACHN WTRGERCDLE DRDRSELSPL LLSTTQ.

