

Hepatitis E virus genotype 1 (HEV-1) Secreted protein ORF2 (His)

General Information

Synonyms: Pro-secreted protein ORF2;Protein ORF2 (pORF2)

Protein Construction: 20-660 aa

Species: HEV-1

Expression Host: Baculovirus Insect Cells

Accession: Q68985

Molecular Weight: 71.3 kDa (predicted)

AA Sequence: PPPGQPSGRRRGRSSGGGFWGDRVDSQPFAIPYIHPTNPFAPNVTAAGAGPRVRQPVRPLGSAWRD
QAQRPAASRRRPTTAGAAPLTAVAPAHDTPPVPDVDSRGAILRRQYNLSTSPVATGNTLVLYAAPLSP
LLPLQDGTNTHIMATEASNYAQYRVARATIRYRPLVNAVGGYAISISFWPQTPTPTSVDMNSITSTDVRLV
QPGIASLVIPSERLHYRNQGWRSVETSGVAEEEEATSGLVMLCIHGSPVNSYNTNTPYTGALGLLDFALELEFRN
LTPGNTNTRVSRYSSTARHRLRRGADGTAELTTTAATRFMKDLYFTSTNGVGEIGRGIALTLFNLADTLLGGLP
TELISSAGGQLFYSRPVVSANGEPTVKLYTSVENAQQDKGIAIPNDIDLGESRVVIQDYDNQHEQDRPTPSA
PSRPFVSLRANDVLWLSLTAAEYDQSTYGSSTGPVYVSDSVTLVNVATGAQAVARSLDWTKVTLDGRPLSTIQ
QYSKIFFVLPLRGKLSFWEAGTRPGYPYNYNTTASDQLLVENAAGHRVAISTYTTSLGAGPVSISAVAVLGP
SALALLEDTLDYPARAHTFDDFCPECRPLGLQGCAFQSTVAELQRLKMKVKGKTREL

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Plays a role in the inhibition of host antibody-mediated neutralization without blocking viral cell entry.; Forms an icosahedral capsid with a T=1 symmetry and a 34 nm diameter. The capsid is composed of 60 copies linked to each other. Binds to the 5' end of the genomic RNA to mediate genome encapsidation. Binds to heparin surface proteoglycans (HSPGs) to mediate viral entry. Additionally, the interactions with host ASGR1 and ASGR2 facilitate viral infection of hepatocytes.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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