



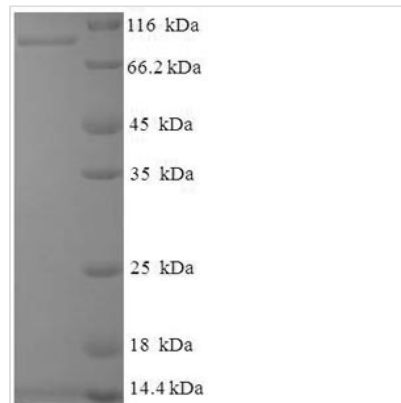
Recombinant Hepatitis E virus genotype 1

Secreted protein ORF2 (ORF2), partial

Product Code	CSB-EP727851HVZ
Relevance	Major viral capsid protein that encapsidates the viral genome. Binds to the 5' end of the genomic RNA .
Abbreviation	Recombinant Hepatitis E virus genotype 1 ORF2 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q68985
Alias	Protein ORF2 ;pORF2
Product Type	Recombinant Protein
Immunogen Species	Hepatitis E virus genotype 1 (isolate Human/India/Hyderabad) (HEV-1)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	PPPGQPSGRRRGRRSGGSGGGFWGDRVDSQPFAIPYIHPTNPFAPNVTA AAGAGPRVRQPVRPLGSAWRDQAQRPAASRRRPTTAGAAPLTAVAPAHDT PPVPDVDSDRGAILRRQYNLSTSPLTSSVATGTNLVLYAAPLSPLLPLQD GTNTHIMATEASNYAQYRVARATIRYRPLVPNAVGGYAISISFWPQTTPT PTSVDMNSITSDVRLVQPGIASLVIPSERLHYRNQGWRSVETSGVAEEEE ATSGLVMLCIHGPSVNSYTNTPYTGA LGLLDFALELEFRNLTPGNTNTRV SRYSSSTARHRLRRGADGTAELTTTAATRFMKDLYFTSTNGVGEIGRGIA LTLFNLADTLLGGLPTELISSAGGQLFYSRPVVSANGEPTVKLYTSVENA QQDKGIAIPNDIDLGESRVVIQDYDNQHEQDRPTPSPAPSRPFSVLRAN DVLWLSLTAAEYDQSTYGSSTGPVYVSDSVTLVNVATGAQAVARSLDW TKVTLDGRPLSTIQQYSKIFFVLPLRGKLSFWEAGTTRPGYPYNYNTTAS DQLLVENAAGHRVAISTYTTSLGAGPVVISAVAVLGP HSA LALLEDTL DYPARAHTFDDFCPECRPLGLQGCAFAQSTVAELQRLKMKVGKTREL
Research Area	Others
Source	E.coli
Target Names	ORF2
Expression Region	20-660aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	84.8kDa
Protein Length	Partial



Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

To prepare this Recombinant HEV-1 ORF2 protein, the recombinant DNA was required, which was generated by fusing the ORF2 gene with N-terminal 6xHis-SUMO tag sequence. Once the recombinant DNA was amplified and purified, a protein expression system, E.coli, was needed for this ORF2 protein production. After purification, a premium ORF2 recombinant protein was obtained. According to SDS-PAGE, its purity turns out to be 90%+.

ORF2 is a protein encoding gene that provides an instruction in making a protein named secreted protein ORF2 or protein ORF2. In Hepatitis E virus (HEV), the protein encoded by ORF2 gene has two isoforms, secreted protein ORF2 and capsid protein ORF2. The sequence difference between isoform 2 and the isoform 1 is lack of the 1-15 amino acid sequence. The difference between the sequence directly determines their different functions. Isoform 1 can inhibit host antibody-mediated neutralization without blocking viral cell entry. Isoform 2 is the major virion component to form the viral capsid. ORF2 from HEV plays multiple functions in both viral replication and pathogenesis.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.