

Recombinant Hepatitis E Virus Genotype 1 ORF1 Protein (60-240 aa), His-tagged

Cat. No. ORF1-900H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Hepatitis E Virus Genotype 1 (isolate Human/Pakistan/Sar-55) (HEV-1) ORF1 Protein (60-240 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Partial.
Species	Hepatitis E Virus Genotype 1
Source	E.coli
ProteinLength	60-240 aa
Description	Methyltransferase displays a Cytoplasmic domain capping enzyme activity. This function is necessary since all viral RNAs are synthesized in the cytoplasm, and host capping enzymes are restricted to the nucleus. The enzymatic reaction involves a covalent link between 7-methyl-GMP and the methyltransferase, whereas eukaryotic capping enzymes form a covalent complex only with GMP. Methyltransferase catalyzes transfer of a methyl group from S-adenosylmethionine to GTP and GDP to yield m7GTP or m7GDP. GMP, GpppG, and GpppA were poor substrates for the methyltransferase. This enzyme also displays guanylyltransferase activity to form a covalent complex, methyltransferase-m7GMP, from which 7-methyl-GMP is transferred to the mRNA to create the cap structure. Cap analogs such as m7GTP, m7GDP, et2m7GMP, and m2et7GMP inhibit the methyltransferase reaction .RNA-directed RNA polymerase plays an essential role in the virus replication. Binds to the 3'-end of the genomic RNA, probably to initiate replication.

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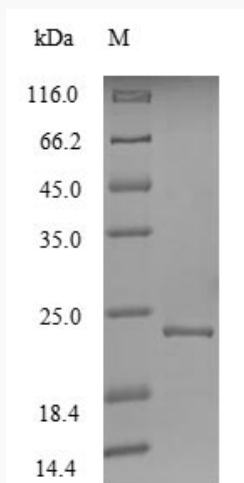
 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Tris-based buffer, 50% glycerol
Molecular Mass	24.4 kDa
AA Sequence	EVFWNHPIQRVIHNELELYCRARSGRCLEIGAHPRSINDNPNVVHRCFLRPAGRVDQ RWYTAPTRGPAANCRRSALRGLPAADRTYCFDGFSGCNFPAETGIALYSLHDMSPS DVAEAMFRHGMTRLYAALHLPPEVLLPPGTYRTASYLLIHDGRRVVVTYEGDTSAGY NHDVSNLRSWI
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with concentration instruction is sent along with the products.
GENE INFORMATION	
UniProt ID	P33424

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

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