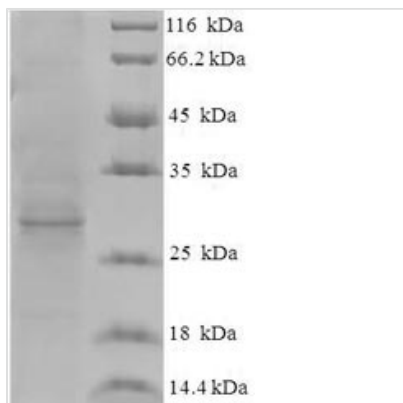




Recombinant Hepatitis E virus genotype 1 Protein ORF3 (ORF3)

| | |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Code | CSB-EP527126HVZ |
| Relevance | May act as a viral regulatory protein involved in the modulation of mitogenic signaling pathways. May be involved in virion morphogenesis and viral pathogenesis. Expedites the processing and secretion of AMBP from the hepatocyte. |
| Abbreviation | Recombinant Hepatitis E virus genotype 1 ORF3 protein |
| 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. | O90299 |
| 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 | MGSRPWALGLFCCCSSCFCLCCSRHRPVSRLAAVVGGAAAVPAVVSGVTGLI LSPSQSPIFIQPTSPRMSPLRPGLDLVFANPSDHSAPLGATRPSAPPLPHVVD LPQLGPRR |
| Research Area | Others |
| Source | E.coli |
| Target Names | ORF3 |
| Expression Region | 1-114aa |
| 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 | 27.8kDa |
| Protein Length | Full Length |

Image



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

Description

The recombinant Hepatitis E virus genotype 1 ORF3 was expressed with the amino acid range of 1-114. The calculated molecular weight for this ORF3 protein is 27.8 kDa. This ORF3 protein is produced using e.coli expression system. Fusion of the N-terminal 6xHis-SUMO tag into the ORF3 encoding gene fragment was conducted, allowing for easier detection and purification of the ORF3 protein in subsequent stages.

The Hepatitis E virus genotype 1 (HEV-1) protein ORF3 is a viral protein encoded by the open reading frame 3 of the HEV genotype 1. HEV-1 ORF3 protein is involved in various aspects of the viral life cycle such as viral replication, assembly, and release. Additionally, HEV-1 ORF3 protein has been implicated in modulating host cell signaling and immune responses. Understanding the functions of HEV-1 ORF3 protein is crucial for unraveling the molecular mechanisms of HEV infection, and it may offer insights into potential targets for antiviral interventions.

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

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