

## Hepatitis E virus genotype 1 (HEV-1) Protein ORF3 (His & SUMO)

### General Information

Synonyms:	pORF3;Protein ORF3
Protein Construction:	1-114 aa
Species:	HEV-1
Expression Host:	E. coli
Accession:	O90299
Molecular Weight:	27.8 kDa (predicted)
AA Sequence:	MGSRPWALGLFCCSSCFCLCCSRHRPVSRLAAVVGAAAVPAVVGVTGLILSPSQSPIFIQPTSPRMSPLR PGLDLVFANPSDHSAPLGGATRPSAPPLPHVVDLPQLGPRR

### 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:	> 90% 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 critical roles in the final steps of viral release by interacting with host TSG101, a member of the vacuolar protein-sorting pathway and using other cellular host proteins involved in vesicle formation pathway. Acts also as a viroporin and forms ion conductive pores allowing viral particle release. Impairs the generation of type I interferon by downregulating host TLR3 and TLR7 as well as their downstream signaling pathways.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481