



## Synonym

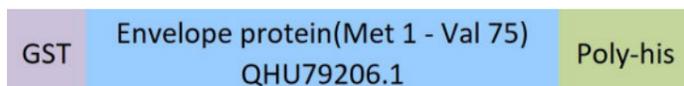
Envelope protein, Env polyprotein, Envelope glycoprotein, env

## Source

SARS-CoV-2 Envelope protein, GST,His Tag(ENN-C5128) is expressed from E. coli cells. It contains AA Met 1 - Val 75 (Accession # [QHU79206.1](#)).

Predicted N-terminus: Met

## Molecular Characterization



This protein carries a GST tag at the N-terminus and a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 36.8 kDa. The protein migrates as 33-35 kDa under reducing (R) condition (SDS-PAGE).

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in 20 mM Tris, Arginine, pH8.0 with sucrose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

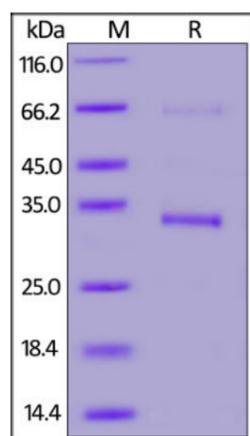
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



SARS-CoV-2 Envelope protein, GST,His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

## Background

The SARS-CoV-2 is composed of a double-layered lipid envelope, including Spike glycoprotein (S), Envelope protein (E), Membrane glycoprotein (M), and Nucleocapsid protein (Nucleocapsid protein, N). Among them, The amino acid sequence of the SARS-CoV-2 envelope protein is 95% identical of the SARS envelope protein.

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