

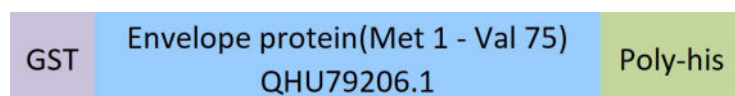
Synonym

Envelope protein,Env polyprotein,Envelope glycoprotein,env,COVID-19

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, 5 mM EDTA, Arginine, pH8.0. Normally sucrose is added as protectant before lyophilization.

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.

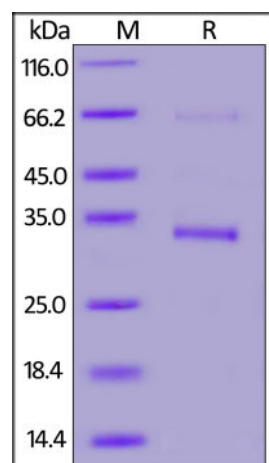
Storage

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 overnight 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.

References

- (1) [Schoeman D, et al. Virol J. 2019. 16\(1\):69.](#)

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