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## Product Data Sheet

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Product Name: CoV-2 Envelope (1-75)  
 Cat. No.: GP26411  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.Coli
Physical Appearance	solid	Shipping Condition	atRoomtemp.

Solubility It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely.

Formulation CoV-2 Envelope protein is supplied in 20mM Tris, 5mM EDTA & 0.5M Arginine, pH-8 and 10% sucrose.

### Introduction

A human infecting coronavirus (viral pneumonia) called 2019 novel coronavirus, 2019-nCoV was found in the fish market at the city of Wuhan, Hubei province of China on December 2019. The 2019-nCoV shares an 87% identity to the 2 bat-derived severe acute respiratory syndrome 2018 SARS-CoV-2 located in Zhoushan of eastern China. 2019-nCoV has an analogous receptor-BD-structure to that of 2018 SARS-CoV, even though there is a.a. diversity so thus the 2019-nCoV might bind to ACE2 receptor protein (angiotensin-converting enzyme 2) in humans. While bats are possibly the host of 2019-nCoV, researchers suspect that animal from the ocean sold at the seafood market was an intermediate host. RSCU analysis proposes that the 2019-nCoV is a recombinant within the viral spike glycoprotein between the bat coronavirus and an unknown coronavirus.

### Stability

Lyophilized Cov-2 Envelope protein although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CoV2 Envelope protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

The E.coli derived recombinant protein contains the Coronavirus 2019 CoV-2 Envelope, Wuhan-Hu-1 strain, amino acids 1-75 fused to GST-tag at N-terminal & His-tag at C-terminal having a calculated Mw of 36.8 kDa and migrating between 33-35 under reducing condition.

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