
Product Data Sheet

Product Name: CoV-2 N (1-419)
 Cat. No.: GP26417
 Batch No.: 1

Product Data

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

Solubility It is recommended to reconstitute the lyophilized CoV-2 protein in sterile 18MΩ-cm H₂O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

Formulation CoV-2 Nucleocapsidphosphoprotein was lyophilized from 20mM Na-carbonate buffer pH-9.2

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

Cov-2 Nucleocapsidphosphoprotein is shipped lyophilized at ambient temp. Although stable at room temperature for 2 weeks, should be stored desiccated below -18°C. Upon reconstitution COV2 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Background

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

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The E.Colie derived recombinant protein contains the Coronavirus 2019 CoV-2 Nucleocapsid Phosphoprotein, Wuhan-Hu-1 strain, amino acids (1-419) having a Mw of 46.4 kDa and fused to 6xHis tag at C-terminal.

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