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## Product Data Sheet

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Product Name: CoV HKU1 Human  
 Cat. No.: GP26375  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	withIcePacks

Amino Acid Sequence  
 SERNYQTFNR GRKTQPKFTV STQPQGNTIP HYSWFSGITQ FQKGRDFKFS  
 DGQGVPIAFG VPPSEAKGYW YRHSRRSFKT ADGQQKQLLP RWYFYLLGTG  
 PYANASYGES LEGVFWVANH QADTSTPSDV SSRDPTTQEA IPTRFPPGTI  
 LPQGYVEGS GRSASNSRPG SRSQSRGPNN RLSRSNSNF RHSDSIVKPD  
 ADEIANLVL AKLGKESKPQ QVTKQNAKEI RHKILTKPRQ KRTPNKHCNV  
 QQCFGKRGPS QNFGNAEMLK LGTNDPQFPI LAELAPTPGA FFFGSKLDLV  
 KRDSEADSPV KDVFELHYSG SIRFDSTLPG FETIMKVLEE NLNAYVNSNQ  
 NTSDSLSSK PQRKRGVKQL PEQFDSLNLNLS AGTQHISNDF TPEDHSLLAT  
 LDDPYVEDSV A

Formulation CoV HKU1 protein solution contains PBS and 25mM K<sub>2</sub>CO<sub>3</sub>.

### Introduction

CoV HKU1 is 1 from 7 known coronaviruses to infect humans including CoV-229E, CoV-NL63, CoVHKU1, MERS-CoV, the original SARS-CoV1, and SARS-CoV-2 (Covid 19). CoV-229E, beta-coronavirus, NL63, CoV-HKU1 and OC43 are the viruses responsible for the common cold. Beta-coronaviruses has an additional shorter spike-like protein called hemagglutinin esterase. Human coronavirus HKU1 (CoV-HKU1) belongs to beta-coronavirus which are enveloped, positive-sense, single stranded RNA and enters its host cell by binding to the N-acetyl-9-O-acetyl neuraminic acid receptor.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

**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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Recombinant Human Coronavirus HKU1 Nucleoprotein is full length protein except the predicted signal peptide of the first 30 aa produced in E.coli and migrate at 50kDa. The CoV HKU1 is fused to a 6xHis tag at its C terminal and purified by proprietary chromatographic technique.

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