
Product Data Sheet

Product Name: CoV OC43 Human
 Cat. No.: GP26376
 Batch No.: 1

Product Data

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

Amino Acid Sequence
 DQFRNVQTRG RRAQPKQTST SQQPSGGNVV PYYSWFSGIT QFQKGKEFEF
 AEGQGVPIAP GVPATEAKGY WYRHNRRSFK TADGNQRQLL PRWYFYLLGT
 GPHAKDQYGT DIDGVFWVAS NQADVNTPAD IVDRDPSSDE AIPTRFPPGT
 VLPQGYIEG SGRSAPNSRS TSRTSSRASS AGSRSRANSR NRAPTSRVTP
 DMADQIASLV LAKLGKDATK PQQVTKHTAK EVRQKILNKP RQKRSPNKQC
 TVQQCFGKRG PNQNFGGGEM LKLGTSDPQF PILAELAPTA
 GAFFFGSRLELAKVQNLSGN PDEPQKDVYE LRYNGAIRFD STLSGFETIM
 KVLNENLNAY QQQDGMMNMS PKPQRQRGLK NGQGENDNIS VAAPKSRVQQ
 NKSRELTAE ISLLKKMDEP YTEDTSEI

Formulation CoV OC43 protein solution contains PBS and 25mM K₂CO₃.

Introduction

OC43 is 1 of 7 known coronaviruses to infect human, including CoV-229E, CoV-NL63, CoV-HKU1, MERS-CoV, the original SARS-CoV1, and SARS-CoV-2 (Covid 19). CoV-OC43, human alpha- coronavirus 229E and NL63, beta-coronavirus and HCoV-HKU1 are responsible for the common cold. like other betacoronavirus, CoV-OC43 has an additional shorter spike protein called hemagglutinin esterase. Human coronavirus OC43 belongs to the species beta-coronavirus which are enveloped, positive-sense, singlestranded RNA virus which enters its host cell by binding to the Nacetyl-9-O-acetylneuraminic 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.

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

Recombinant Human Coronavirus OC43 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 OC43 is fused to a 6xHis tag at its C terminal and purified by proprietary chromatographic technique.

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