9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

CoV-NL63

Coronavirus NL63 Recombinant
VAG0098

Product Overview

Name	CoV-NL63
Description	
Coronavirus NL63 Recombinant	
Accession (Primary)	ABE73423
Introduction	

Human coronavirus NL63 also known as HCoV-NL63 is a type of coronavirus that was identified in 2004. Among the associated diseases are mild to moderate upper respiratory tract infections, bronchiolitis, severe lower respiratory tract infection and croup. Coronavirus NL63 appears mainly in young children, the elderly and immunocompromised patients with acute respiratory illness. Coronavirus NL63 has a seasonal association in temperate climates. Coronavirus NL63 is not an emerging virus, but rather one that continually circulates the human population. Transmission of HCoV-NL63 is likely through droplet expulsion from the respiratory tract, which may be cottages when close personal contact occurs. Coronavirus NL63 is able to endure for up to7 days in respiratory secretions and remains infective at room temperature. Once the virus has entered the host it binds to cellular receptors using spike proteins, similar to those found in HIV-1. Coronavirus NL63 is able to use Angiotensin-converting enzyme 2 (ACE2) as an entry receptor to target cells. Since coronavirus NL63 is a positive single-stranded RNA virus, the processes of replication via transcription and translation can be carried out in the cytoplasm of the infected cell.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered clear solution.

Formulation

Coronavirus NL63 protein solution is supplied in PBS and 25mM K 2 CO 3.

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.

Purity

Protein is >95% pure as determined by 10% SDS-PAGE (coomassie staining).

Amino acid sequence

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GS SQPRADKPSQLKKPRWKRVPTREENVIQCFGPRDFNHNMGDSDLVQNGVDA

KGFPQLAELIPNQAALFFDSEVSTDEVGDNVQITYTYKMLVAKDNKNLPKFIEQISAF TKPSSIKEMQS LEHHHHHH

Precautions

CoV-NL63 is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (ABE73423)