

Nucleoprotein/NP Protein, HCoV-NL63 (Sf9, His, myc)

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| Cat. No.: | HY-P72268 |
| Synonyms: | Protein N |
| Species: | Virus |
| Source: | Sf9 insect cells |
| Accession: | Q6Q1R8 (M1-H377) |
| Gene ID: | 2943504 |
| Molecular Weight: | Approximately 46.3kDa |

PROPERTIES

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| AA Sequence | <pre> M A S V N W A D D R A A R K K F P P P S F Y M P L L V S S D K A P Y R V I P R N L V P I G K G N K D E Q I G Y W N V Q E R W R M R R G Q R V D L P P K V H F Y Y L G T G P H K D L K F R Q R S D G V V W V A K E G A K T V N T S L G N R K R N Q K P L E P K F S I A L P P E L S V V E F E D R S N N S S R A S S R S S T R N N S R D S S R S T S R Q Q S R T R S D S N Q S S S D L V A A V T L A L K N L G F D N Q S K S P S S S G T S T P K K P N K P L S Q P R A D K P S Q L K K P R W K R V P T R E E N V I Q C F G P R D F N H N M G D S D L V Q N G V D A K G F P Q L A E L I P N Q A A L F F D S E V S T D E V G D N V Q I T Y T Y K M L V A K D N K N L P K F I E Q I S A F T K P S S I K E M Q S Q S S H V A Q N T V L N A S I P E S K P L A D D D S A I I E I V N E V L H </pre> |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from 0.22 µm filtered solution in Tris/PBS-based buffer, 6% Trehalose, pH 8.0. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping | Room temperature in continental US; may vary elsewhere. |

DESCRIPTION

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| Background | Nucleoprotein/NP Protein is a crucial player in the assembly of viral particles, orchestrating the packaging of the positive-strand viral genome RNA into a helical ribonucleocapsid (RNP). Its intricate interactions with the viral genome and the membrane protein M are fundamental to the virion assembly process. Beyond its structural role, NP Protein significantly |
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contributes to the efficiency of subgenomic viral RNA transcription and overall viral replication. Existing as both monomeric and oligomeric forms, NP Protein forms homooligomers and engages in direct interactions with RNA. Furthermore, its association with NSP3 serves to tether the genome to the newly translated replicase-transcriptase complex at the early stages of infection, further highlighting its multifaceted involvement in the viral life cycle.

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

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