

Recombinant HCoV-229E Nucleocapsid Protein

Catalog Number: PKSV030285

Note: Centrifuge before opening to ensure complete recovery of vial contents.

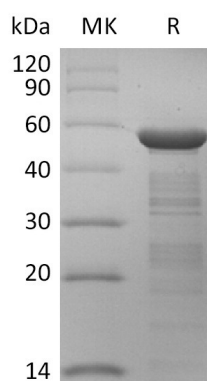
Description

Species	HCoV
Source	E.coli-derived HCoV HCoV-229E Nucleocapsid protein Met1-Asn389, with an N-terminal His
Calculated MW	47.2 kDa
Observed MW	54 kDa
Accession	P15130
Bio-activity	Not validated for activity

Properties

Purity	> 85 % as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
Endotoxin	Please contact us for more information.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/ gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 µm filtered solution of 50mM Tris-HCl, 150mM NaCl, 50mM Arginine, pH7.5

Data



Background

Coronavirus N protein is required for coronavirus RNA synthesis, and has RNA chaperone activity that may be involved in template switch. Nucleocapsid protein is a most abundant protein of coronavirus. N protein packages the positive strand viral genome RNA into a helical ribonucleocapsid (RNP) and plays a fundamental role during virion assembly through its interactions with the viral genome and membrane protein M. Plays an important role in enhancing the efficiency of subgenomic viral RNA transcription as well as viral replication. Because of the conservation of N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a diagnostic tool.

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