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Recombinant HCoV-229E N protein, His

Catalog Number:	bs-41270P
Concentration:	＞0.5 mg/ml
AA Seq:	1-389/389
Predicted MW:	46.5
Detected MW:	53 kDa
Tags:	His
Activity:	Not tested
Endotoxin:	Not analyzed
Purity:	>90% as determined by SDS-PAGE
Purification:	AC
Form:	Liquid
Storage:	20mM Tris-HCl (pH8.0) with 10% Glycerol. Stored at -70°C or -20°C. Avoid repeated freeze/thaw cycles.
Background:	Coronaviruses are enveloped viruses with a positive-sense RNA genome and with a nucleocapsid of helical symmetry. Coronavirus nucleoproteins localize to the cytoplasm and the nucleolus, a subnuclear structure, in both virus-infected primary cells and in cells transfected with plasmids that express N protein. 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. During virion assembly, N protein binds to viral RNA and leads to formation of the helical nucleocapsid. Nucleocapsid protein is a highly immunogenic phosphoprotein also implicated in viral genome replication and in modulating cell signaling pathways. Because of the conservation of N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a diagnostic tool.

VALIDATION IMAGES

The purity of the protein is greater than 90% as determined by reducing SDS-PAGE.