Data Sheet (Cat.No.TMPH-00145)

IBV (strain H52) Nucleoprotein/NP Protein (His)

General Information

Synonyms: Nucleoprotein;Nucleocapsid protein (NC;Protein N)

Protein Construction: 1-409 aa

Species: IBV

Expression Host: HEK293 Cells

Accession: Q98Y32

Molecular Weight: 47.4 kDa (predicted)

AA Sequence: MASGKAAGKTDAPTPVIKLGGPKPPKVGSSGNVSWFQAIKAKKLNSPPPKFEGSGVPDNENLKPSQQHGY WRRQARFKPGKGGRKPVPDAWYFYYTGTGPAANLNWGDSQDGIVWVAGKGADTKFRSNQGTRDSDKFD QYPLRFSDGGPDGNFRWDFIPLNRGRSGRSTAASSAASSRAPSREVSRGRRSGSEDDLIARAARIIQDQQKK GSRITKAKADEMAHRRYCKRTIPPNYKVDQVFGPRTKGKEGNFGDDKMNEEGIKDGRVTAMLNLVPSSHACL FGSRVTPRLQPDGLHLKFEFTTVVPRDDPQFDNYVKICDQCVDGVGTRPKDDEPRPKSRSSSRPATRGNSPA PRQQRPKKEKKPKKQDDEVDKALTSDEERNNAQLEFDDEPKVINWGDSALGENEL

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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.

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