

VSIV (strain Glasgow) Nucleoprotein/NP Protein (His & Myc)

General Information

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

Protein Construction: 1-422 aa

Species: VSIV

Expression Host: E. coli

Accession: P11212

Molecular Weight: 54.9 kDa (predicted)

AA Sequence:

MSVTVKRIIDNTVIVPKLPANEDPVEYPADYFRKSKEIPLYINTTKSLSDLRGYVYQGLKSGNVSIIHVNSYLYGA
LKDIRGKLDKDWSSFGINIGKAGDTIGIFDLVSLKGLDGVLPDGVSDASRTRADDKWLPLYLLGLYRVGRTQM
PEYRKKLMDGLTNQCKMINEQFEPLVPEGRDIFDVWGNDSNYTKIVAAVDMFFHMFKKHECASFRYGTIVSR
FKDCAALATFGHLCKITGMSTEDVTTWILNREVADEMVMMLPGQEIDKADSYMPYLIDFGLSSKSPYSSVKN
PAFHFWGQLTALLRSTRARNARQPDDIEYTSLTAGLLYAYAVGSSADLAQQFCVGD SKYTPDDSTGGLTT
NAPPQGRDVEWLGWLFEDQNRKPTDMMQYAKRAVMSLQGLREKTIGKYAKSEFDK

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: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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

Encapsidates the genome in a ratio of one N per nine ribonucleotides, protecting it from nucleases. The encapsidated genomic RNA is termed the NC and serves as template for transcription and replication. Replication

is dependent on intracellular concentration of newly synthesized N, termed N(0), which corresponds to the protein not associated with RNA. In contrast, when associated with RNA, it is termed N. During replication, encapsidation by N(0) is coupled to RNA synthesis and all replicative products are resistant to nucleases.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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