

Measles virus (MeV) (strain Edmonston-Schwarz vaccine) Nucleoprotein/NP Protein (His)

General Information

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

Protein Construction: 1-400 aa

Species: MeV

Expression Host: Baculovirus Insect Cells

Accession: B8PZP3

Molecular Weight: 46.9 kDa (predicted)

AA Sequence:

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MATLLRSLALFKRNKDKPPITSGSGGAIRGIKHIIIVPIPGDSSITTRSLLDRLVRLIGNPDVSGPKLTGALIGILSL
FVESPGQLIQRITDDPDVSIIRLLEVVQSDQSQSGLTFASRGTNMEDEADQYFSHDDPISSDQSRFGWFGNKEI
SDIEVQDPEGFNMILGTILAQIWVLLAKAVTAPDTAADSELRRWIKYTQRRRVVGEFRLERKWLDVVRNRIAE
DLSLRRFMVALILDIKRTPGNKPRIAEMICDIDTYIVEAGLASFILTIKFGIETMYPALGLHEFAGELSTLESMLNLY
QQMGETAPYMVILENSIQNKFSAGSYPLLWSYAMGVGVELENSMGGLNFGRSYFDPAYFRLGQEMVRRSAG
KVSSTLASELGITAEDARLVSEIAMH
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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 1 N per 6 ribonucleotides, protecting it from nucleases. The nucleocapsid (NC) has a helical structure with either 12.35 or 11.64 N per turn, approximately 20 nm in diameter, with a hollow

central cavity approximately 5 nm in diameter. The encapsidated genomic RNA is termed the NC and serves as template for transcription and replication. During replication, encapsidation by N is coupled to RNA synthesis and all replicative products are resistant to nucleases. N is released in the blood following lysis of measles infected cells, it interacts then with human FCGR2B on immune cells, inducing apoptosis and blocking inflammatory immune response. Ntail binds to a protein on human thymic epithelial cells, termed Nucleoprotein Receptor (NR), inducing growth arrest.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481