



Recombinant Mumps Virus (Jeryl-Lynn) Nucleoprotein (DAGC780)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Mumps virus nucleoprotein (strain Jeryl-Lynn) is a recombinant antigen manufactured in mammalian HEK293 cells for immunoassay development and other applications.
Species	MuV
Conjugate	unconjugated
Applications	Immunoassay
Format	Liquid
Size	100 µg, 500 µg
Buffer	50mM DEA pH10.0, 10mM NaCl, 4M urea
Preservative	None
Storage	Store at -80°C.

BACKGROUND

Introduction	The mumps virus is an enveloped, single-stranded, linear negative-sense RNA virus of the genus Rubulavirus and family Paramyxovirus. The Jeryl Lynn strain of mumps virus has a genome size of 15,384 nucleotides and encodes nine proteins. Proteins involved in viral replication are the nucleoprotein (NP), phosphoprotein (P), and polymerase protein while the genomic RNA forms the ribonucleocapsid. The MuV NP encapsidates the virus genome, protecting it from nucleases. The nucleocapsid (NC) has a helical structure, 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
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replication, encapsidation by N is coupled to RNA synthesis and all replicative products are resistant to nucleases. Mumps virus replicates by budding from the cell surface and the roughly spherical shaped virus particle, has a size ranging from 1,000 to 8,000 Å. Humans are the only natural host for this virus.

Keywords

Mumps virus; MuV; Mumps virus Nucleoprotein; MuV Nucleoprotein; MuV NP; Mumps virus NP
