

Recombinant Rabies virus Nucleoprotein(N)

Catalog No: #AP71007

Package Size: #AP71007-1 20ug #AP71007-2 100ug #AP71007-3 1mg

Description

Product Name	Recombinant Rabies virus Nucleoprotein(N)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-450aaSequence Info:Full Length
Other Names	Nucleocapsid protein ;Protein N
Accession No.	P15197
Calculated MW	54.7 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MDADKIVFKVNNQVSLKPEIIVDQYEYKYP AIKDLKKPCITLGKAPDLNKAYKSVLSGMNAAKLDPDDVCSYLA AAMQFFEGTCEPDWTSYGILIARKGDRITPNSLVEIKRTDVEGNWALTGGMELTRDPTVSEHASLVGLLLSLYR LSKISGQNTGNYKTNIADRIEQIFETAPFVKIVEHHTLMTTHKMCANWSTIPNFRFLAGTYDMFFSRIEHLYSAIR VGTVV TAYEDCSGLVSFTGFIKQINLTAREAILYFFHKNFEEEEIRRMFEPGQETAVPHSYFIHFRSLGLSGKSPY SSNAVGHVFNLIHFVGCYMGQVRS LNATVIAACAPHEMSVLGGYLGEFFGKGT FERRFFRDEKELQEYEEA ELTKTDVALADDGTVNSDDEDYFSGETR SPEAVYTRIMMNGGRLKRSHIRRYVSVSSNHQARPNSFAEFLNK TYSNDS
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Encapsidates the genome in a ratio of one protein N per nine ribonucleotides, protecting it from nucleases. If expressed without protein P it binds non-specifically RNA and therefore can bind it's own mRNA. Interaction with protein P abolishes any non-specific RNA binding, and prevents phosphorylation. The soluble N-P complex encapsidates specifically the genomic RNA, with protein N protecting the genome like a pearl necklace. The encapsidated genomic RNA is termed the nucleocapsid (NC) and serves as template for viral transcription and replication. Protein N binds protein P in the NC through a different interaction, and can be phosphorylated. Subsequent viral replication is dependent on intracellular concentration of newly synthesized protein N. During replication, encapsidation by protein N is coupled to RNA synthesis and all replicative products are resistant to nucleases .

References

Sequence of the 3386 3' nucleotides of the genome of the AVO1 strain rabies virus structural similarities in the protein regions involved in transcription.Poch O., Tordo N., Keith G.Biochimie 70:1019-1029(1988)Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.