



Recombinant Rabies virus Nucleoprotein (N)

Product Code	CSB-YP321352RAI
Relevance	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 tplate 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 .
Abbreviation	Recombinant Rabies virus N protein
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.
Uniprot No.	P15197
Alias	Nucleocapsid protein ;Protein N
Product Type	Recombinant Protein
Immunogen Species	Rabies virus (strain PM1503/AVO1) (RABV)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MDADKIVFKVNNQVVSLKPEIIVDQYEEKYPAIKDLKKPCITLGKAPDLNKAYKS VLSGMNAAKLDPDDVCSYLAAMQFFEGTCPEDWTSYGILIARKGDRITPNSL VEIKRTDVEGNWALTGGMELTRDPTVSEHASLVGLLLSLYRLSKISGQNTGNY KTNIADRIEQIFETAPFVKIVEHHTLMTTHKMCANWSTIPNFRFLAGTYDMFFSR IEHLYSAIRVGTVTAYEDCSGLVSFTGFIKQINLTAREAILYFFHKNFEEEEIRRM FEPGQETAVPHSYFIHFRSLGLSGKSPYSSNAVGHVFNLIHFVGCYMGQVRSL NATVIAACAPHEMSVLGGYLGEEFFGKGTERRFFRDEKELQEYEAELTKTD VALADDGTVNSDDEDYFSGETRSPYVYTRIMMNGGRLKRSHIRRYVSVSSN HQARPNSFAEFLNKTYSNDS
Research Area	Others
Source	Yeast
Target Names	N
Protein Names	Recommended name: Nucleoprotein Short name= NP Alternative name(s): Nucleocapsid protein Short name= Protein N
Expression Region	1-450aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at



4°C for up to one week.

Tag Info

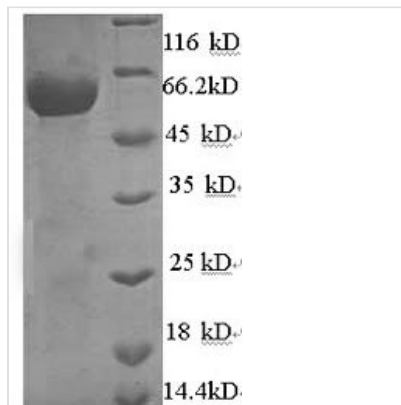
N-terminal 6xHis-tagged

Mol. Weight

52.7kDa

Protein Length

Full Length

Image


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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