Recombinant Avian infectious bursal disease virus Polyprotein

Catalog No: #AP72379

Package Size: #AP72379-1 20ug #AP72379-2 100ug #AP72379-3 1mg

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Description

Product Name	Recombinant Avian infectious bursal disease virus Polyprotein
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:723-1012aaSequence Info:Partial
Accession No.	P15480
Uniprot	P15480
Calculated MW	36.8 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	RFPHNPRDWDRLPYLNLPYLPPNAGRQYHLAMAASEFKETPELESAVRAMEAAANVDPLFQSALSVFMWLE ENGIVTDMANFALSDPNAHRMRNFLANAPQAGSKSQRAKYGTAGYGVEARGPTPEEAQREKDTRISKKMET MGIYFATPEWVALNGHRGPSPGQLKYWQNTREIPDPNEDYLDYVHAEKSRLASEEQILRAATSIYGAPGQAEP PQAFIDEVAKVYEINHGRGPNQEQMKDLLLTAMEMKHRNPRRALPKPKPKPNAPTQRPPGRLGRWIRTVSDE DLE
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

Capsid protein VP2 self assbles to form an icosahedral capsid with a T=13 symmetry, about 70 nm in diameter, and consisting of 260 VP2 trimers. The capsid encapsulates the genomic dsRNA. VP2 is also involved in attachment and entry into the host cell by interacting with host ITGA4,ITGB1 .The precursor of VP2 plays an important role in capsid assbly. First, pre-VP2 and VP2 oligomers assble to form a procapsid. Then, the pre-VP2 intermediates may be processed into VP2 proteins by proteolytic cleavage mediated by VP4 to obtain the mature virion. The final capsid is composed of pentamers and hexamers but VP2 has a natural tendency to assble into all-pentameric structures. Therefore pre-VP2 may be required to allow formation of the hexameric structures .Protease VP4 is a serine protease that cleaves the polyprotein into its final products. Pre-VP2 is first partially cleaved, and may be completely processed by VP4 upon capsid maturation..

References

The birnavirus crystal structure reveals structural relationships among icosahedral viruses.Coulibaly F., Chevalier C., Gutsche I., Pous J., Navaza J., Bressanelli S., Delmas B., Rey F.A.Cell 120:761-772(2005)Research Topic:Others

Note: This product is for in vitro research use only