Recombinant Bovine coronavirus Hemagglutinin-esterase

Catalog No: #AP72904

Package Size: #AP72904-1 20ug #AP72904-2 100ug #AP72904-3 1mg

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Description

Product Name	Recombinant Bovine coronavirus Hemagglutinin-esterase
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:19-424aaSequence Info:Full Length
Other Names	E3 glycoprotein
Accession No.	P15776
Uniprot	P15776
Calculated MW	47.7 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	FDNPPTNVVSHLNGDWFLFGDSRSDCNHVVNTNPRNYSYMDLNPALCDSGKISSKAGNSIFRSFHFTDFYNY TGEGQQIIFYEGVNFTPYHAFKCTTSGSNDIWMQNKGLFYTQVYKNMAVYRSLTFVNVPYVYNGSAQSTALC KSGSLVLNNPAYIAREANFGDYYYKVEADFYLSGCDEYIVPLCIFNGKFLSNTKYYDDSQYYFNKDTGVIYGLN STETITTGFDFNCHYLVLPSGNYLAISNELLLTVPTKAICLNKRKDFTPVQVVDSRWNNARQSDNMTAVACQPP YCYFRNSTTNYVGVYDINHGDAGFTSILSGLLYDSPCFSQQGVFRYDNVSSVWPLYSYGRCPTAADINTPDVP ICVYDPLPLILLGILLGVAVIIIVVLLLYFMVDNGTRLHDA
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

Structural protein that makes short spikes at the surface of the virus. Contains receptor binding and receptor-destroying activities. Mediates de-O-acetylation of N-acetyl-9-O-acetylneuraminic acid, which is probably the receptor determinant recognized by the virus on the surface of erythrocytes and susceptible cells. This receptor-destroying activity is important for virus release as it probably helps preventing self-aggregation and ensures the efficient spread of the progeny virus from cell to cell. May serve as a secondary viral attachment protein for initiating infection, the spike protein being the major one. Ses to be a 'luxury' protein that is not absolutely necessary for virus infection in culture. However, its presence in the virus may alter its pathogenicity. May become a target for both the humoral and the cellular branches of the immune syst.

References

Structure and orientation of expressed bovine coronavirus hemagglutinin-esterase protein.Kienzle T.E., Abraham S., Hogue B.G., Brian D.A.J. Virol. 64:1834-1838(1990)Research Topic:Others

Note: This product is for in vitro research use only