



Recombinant Bovine coronavirus Hemagglutinin-esterase (HE)

Product Code	CSB-YP323648BJK
Relevance	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.
Abbreviation	Recombinant Bovine coronavirus Hemagglutinin-esterase
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.	P15776
Alias	E3 glycoprotein
Product Type	Recombinant Protein
Immunogen Species	Bovine coronavirus (strain Mebus) (BCoV) (BCV)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	FDNPPTNVVSHLNGDWFLFGDSRSDCNHVVNTNPRNYSYMDLNPALCDSGKI SSKAGNSIFRSFHFTDFYNYTGEGQQIIFYEGVNFTPYHAFKCTTSGSNDIWM QNKGLFYTQVYKNMAVYRSLTFVNVPPYVYNGSAQSTALCKSGSLVLNNPAYIA REANFGDYKVEADFYLSGCDEYIVPLCIFNGKFLSNTKYYDDSQYYFNKDT GVIYGLNSTETITTFDFNCHYLVLPSTGNLAINELLTVPTKAICLNKRKDFTP VQVDSRWNNARQSDNMTAVACQPPYCYFRNSTTNYVGVYDINHGDAGFTSI LSGLLYDSPCFSSQQGVFRYDNVSSVWPLYSYGRCPTAADINTPDVPICVYDPL PLILLGILLGVAVIIIVLLLYFMVDNGTRLHDA
Research Area	Others
Source	Yeast
Target Names	HE
Protein Names	Recommended name: Hemagglutinin-esterase Short name= HE protein EC= 3.1.1.53 Alternative name(s): E3 glycoprotein
Expression Region	19-424aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at



4°C for up to one week.

Tag Info

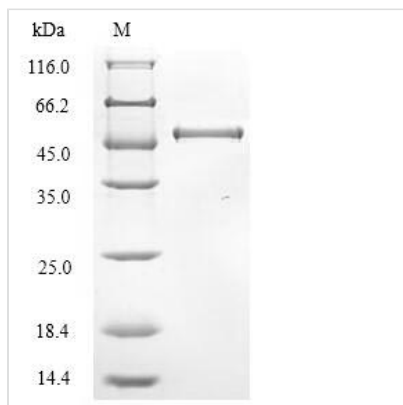
N-terminal 6xHis-tagged

Mol. Weight

47.7kDa

Protein Length

Full Length of Mature Protein

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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