



# Recombinant Bovine coronavirus Hemagglutinin-esterase (HE)

<b>Product Code</b>	CSB-YP323648BJK
<b>Relevance</b>	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.
<b>Abbreviation</b>	Recombinant Bovine coronavirus Hemagglutinin-esterase
<b>Storage</b>	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.
<b>Uniprot No.</b>	P15776
<b>Alias</b>	E3 glycoprotein
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Bovine coronavirus (strain Mebus) (BCoV) (BCV)
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	FDNPPTNVVSHLNGDWFLFGDSRSDCNHVVNTNPRNYSYMDLNPALCDSGKI SSKAGNSIFRSFHFTDFYNYTGEGQQIIFYEGVNFPTYHAFKCTTSGSNDIWM QNKGLFYTQVYKNMAVYRSLTFVNVVYVYNGSAQSTALCKSGSLVLNNPAYIA REANFGDYKVEADFYLSGCDEYIVPLCIFNGKFLSNTKYYDDSQYYFNKDT GVIYGLNSTETITTFDFNCHYLVLPNGNYLAISNELLLTVPTKAICLNKRKDFTP VQVVDSRWNNARQSDNMTAVACQPPYCYFRNSTTNYVGVYDINHGDAGFTSI LSGLLYDSPCFSQQGVFRYDNVSSVWPLYSYGRCPTAADINTPDVPICVYDPL PLILLGILLGVAVIIIVLLLYFMVDNGTRLHDA
<b>Research Area</b>	Others
<b>Source</b>	Yeast
<b>Target Names</b>	HE
<b>Protein Names</b>	Recommended name: Hemagglutinin-esterase Short name= HE protein EC= 3.1.1.53 Alternative name(s): E3 glycoprotein
<b>Expression Region</b>	19-424aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at



4°C for up to one week.

**Tag Info**

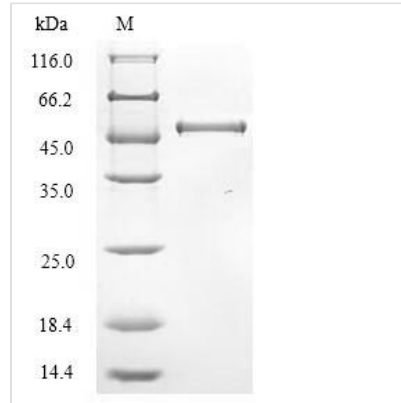
N-terminal 6xHis-tagged

**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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