

Hemagglutinin-esterase (HE) Recombinant Protein | HE recombinant protein

Recombinant Bovine coronavirus Hemagglutinin-esterase (HE)

CATALOG #
AAA115137

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

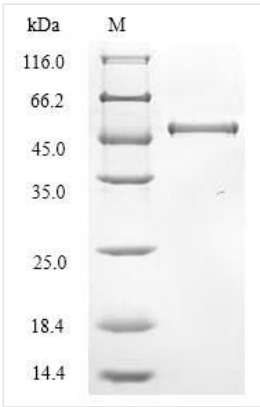
PRODUCT SYNONYMS

Hemagglutinin-esterase (HE); Recombinant Bovine coronavirus Hemagglutinin-esterase (HE); E3 glycoprotein; HE recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	19-424. Full Length of Mature Protein
Sequence	FDNPPTNVVS HLNGDWFLFG DSRSDCNHVV NTNPRNYSYM DLNPALCD SG KISSKAGNSI FRSFHFTDFY NYTGEGQQII FYEGVNFTPY HAFKCTTSGS NDIWMQNKGL FYTQVYKNMA VYRSLTFVNV PYVYNGSAQS TALCKSGSLV LNNPAYIARE ANFGDYKYV EADFYLSGCD EYIVPLCIFN GKFLSNTKYY DDSQYYFNKD TGVYGLNST ETITTGFDN CHYLVLP SGN YLAISNELLL TVPTKAICLN KRKDFTPVQV VDSRWNNARQ SDNMTAVACQ PPYCYFRNST TNYVGVDIN HGDAGFTSIL SGLLYDSPCF SQQGVFRYDN VSSVWPLYSY GRCPTAADIN TPDVPICVDY PLPLILLGIL LGVAIIIVV LLLYFMVDNG TRLHDA
Species	BCoV
Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. Note: If you have any special requirement for the glycerol content, please remark when you place the order. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Production Note	Special Offer: The Yeast host-expressed protein is manufactured from a stock plasmid containing the protein gene. Yeast host-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The Yeast host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select Yeast host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



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

ADDITIONAL INFORMATION

Related Product Information for HE recombinant protein	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 system.
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) Structure and expression of the bovine coronavirus hemagglutinin protein.Kienzle T.E., Abraham S., Hogue B.G., Brian D.A.Adv. Exp. Med. Biol. 276:95-102(1990) Synthesis and processing of the bovine enteric coronavirus haemagglutinin protein.Hogue B.G., Kienzle T.E., Brian D.A.J. Gen. Virol. 70:345-352(1989) Nidovirus sialate-O-acetylesterases evolution and substrate specificity of coronaviral and toroviral receptor-destroying enzymes.Smits S.L., Gerwig G.J., van Vliet A.L., Lissenberg A., Briza P., Kamerling J.P., Vlasak R., de Groot R.J.J. Biol. Chem. 280:6933-6941(2005) Structure of coronavirus hemagglutinin-esterase offers insight into corona and influenza virus evolution.Zeng Q., Langereis M.A., van Vliet A.L., Huizinga E.G., de Groot R.J.Proc. Natl. Acad. Sci. U.S.A. 105:9065-9069(2008)

NCBI AND UNIPROT INFORMATION

NCBI GI #	122851
UniProt Accession #	P15776
Molecular Weight	47.7 kDa
NCBI Official Full Name	Hemagglutinin-esterase
UniProt Protein Name	Hemagglutinin-esterase
UniProt Gene Name	HE
UniProt Synonym Gene Names	HE protein
UniProt Entry Name	HEMA_CVBM

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.