

Bovine coronavirus (strain Mebus) Hemagglutinin-esterase Protein (His)

General Information

Synonyms: Hemagglutinin-esterase;E3 glycoprotein;HE protein;HE

Protein Construction: 19-424 aa

Species: Bovine

Expression Host: P. pastoris (Yeast)

Accession: P15776

Molecular Weight: 47.7 kDa (predicted)

AA Sequence:

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FDNPPTNVVSHLNGDWFLFGDSRSDCNHVVNTNPRNYSYMDLNPALCDSGKISSKAGNSIFRSFHFTDFYN
YTGEGQQIIFYEGVNFTPYHAFKCTTSGSNDIWMQNKGLFYTQVYKNMAVYRSLTFVNVVPYVYNGSAQSTAL
CKSGSLVLNNPAYIAREANFGDYKVEADFYLSGCDEYIVPLCIFNGKFLSNTKYYDDSQYYFNKDTGVIYGL
NSTETITTGFDFNCHYLVLPSTGNLAINELLTVPTKAIKLNKRKDFTPVQVDSRWNNARQSDNMTAVACQ
PPYCYFRNSTTNYVGVYDINHGDAFTSILSGLLYDSPCFSSQGVFRYDNVSSVWPLYSGRCPTAADINTPD
VPICVYDPLPLILLGILLGVAIVVLLLYFMVDNGTRLHDA
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QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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-4-O-acetylneuraminic acid, which is probably the

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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. May become a target for both the humoral and the cellular branches of the immune system.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481