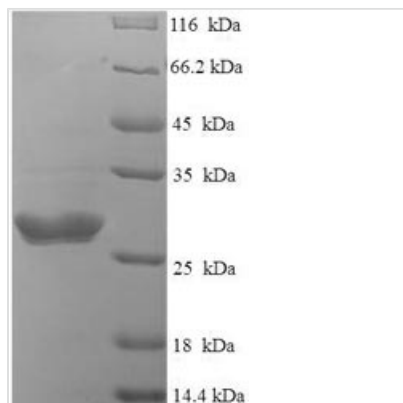




Recombinant Bovine coronavirus Spike glycoprotein (S), partial

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|----------------------------|--|
| Product Code | CSB-EP333052BJO |
| Relevance | S1 attaches the virion to the cell mbrane by binding to 9-O-acetylated sialic acid containing proteins, initiating the infection.S2 is a class I viral fusion protein. Under the current model, the protein has at least 3 conformational states: pre-fusion native state, pre-hairpin intermediate state, and post-fusion hairpin state. During viral and target cell mbrane fusion, the coiled coil regions (heptad repeats) assume a trimer-of-hairpins structure, positioning the fusion peptide in close proximity to the C-terminal region of the ectodomain. The formation of this structure appears to drive apposition and subsequent fusion of viral and target cell mbranes . |
| 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. | P25194 |
| Alias | E2;Peplomer protein |
| Product Type | Recombinant Protein |
| Immunogen Species | Bovine coronavirus (strain vaccine) (BCoV) (BCV) |
| Purity | Greater than 90% as determined by SDS-PAGE. |
| Sequence | PNLPDCNIEAWLNDKSVPSPLNWERKTFSNCFNMSSLMSFIQADSFTCNNIE AAKIYGMCFSSITIDKFAIPNGRKVDLQLGNLGYLQSFNYRIDTTAASCQLYYNL PAANVSVSRFNPSTWNRFRGFTEQSVFKPQPVGVFTHHDVVYAQHCFKAPT NFCPCKLDGSLCVGNPGIDAGYKNSGIGTCTPAGTNYLTCHNAAQCDCLCTP DPIT |
| Lead Time | 3-7 business days |
| Research Area | Others |
| Source | E.coli |
| Gene Names | S |
| Expression Region | 326-540aa |
| 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 | 27.7kDa |
| Protein Description | Partial |
| Image | |



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

Description

CUSABIO expressed the bovine coronavirus (BCoV) spike glycoprotein (S) amino acid residues Pro326-Thr540 carrying an N-terminal 6xHis-tag in E.coli. The product is the recombinant partial-length BCoV-S protein. Its purity is greater than 90% determined by SDS-PAGE. The observed molecular mass was approximately 28 kDa, slightly higher than the calculated one (27.7 kDa). In addition to producing specific antibodies, this BCoV-S protein may be used to study microbiology.

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.