

Recombinant Bovine coronavirus Spike glycoprotein(S) ,partial

Catalog No: #AP71053

Package Size: #AP71053-1 20ug #AP71053-2 100ug #AP71053-3 1mg

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	Recombinant Bovine coronavirus Spike glycoprotein(S) ,partial
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:326-540aaSequence Info:Partial
Other Names	E2;Peplomer protein
Accession No.	P25194
Calculated MW	27.7 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	PNLPDCNIEAWLNDKSVPSPLNWERKTFSCNCFNMSSLMSFIQADSFTCNNIEAAKIYGMCFSSITIDKFAIPNG RKVDLQLGNLGYLQSFNYRIDTTAASCQLYYNLPAANVSRSRFPSTWNRRFGFTEQSVFKPQPVGVFTHHD VVYAQHCFKAPTNFCPCCKLDGSLCVGNPGIDAGYKNSGIGTCPAGTNYLTCHNAAQCDCLCTPDPIIT
Formulation	Tris-based buffer50% glycerol
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.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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 .

References

Comparison of the nucleotide and deduced amino acid sequences of the S genes specified by virulent and avirulent strains of bovine coronaviruses.Zhang X., Kousoulas K.G., Storz J.Virology 183:397-404(1991)Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.