

Recombinant Human coronavirus OC43 (HCoV-OC43) Spike glycoprotein

Catalog No: #AP72925

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Package Size: #AP72925-1 20ug #AP72925-2 100ug #AP72925-3 1mg

Description

Product Name	Recombinant Human coronavirus OC43 (HCoV-OC43) Spike glycoprotein
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:15-344aaSequence Info:Partial
Other Names	E2;Peplomer protein
Accession No.	P36334
Uniprot	P36334
Calculated MW	39.6 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	VIGDLKCTSDNINDKDTGPPPISTDTVDVTNGLGTYVLDREVLYNTTLFLNGYYPTSGSTYRNMALKGSVLLSR LWFKPPFLSDFINGIFAKVKNTKVIKDRVMYSEFFAITIGSTFVNTSYSVVQPRTINSTQDGDNKLQGLLEVS CQYNMCEYPQTICHPNLGNHRKELWHLDTGVVSCLYKRNFTYDVNADYLYHFYQEGGTFYAYFTDTGVVTK FLFNVYLGMAISHYYVMPLTCNSKLTLEYWVTPLSRQYLLAFNQDGIIFNAEDCMSDFMSEIKCKTQSIAPPT GVYELNGYTVQPIADVYRRKPNLPNCNIEAWLNDK
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 interacting with sialic acid-containing cell receptors, 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

Complete genomic sequence of human coronavirus OC43 molecular clock analysis suggests a relatively recent zoonotic coronavirus transmission event.Vijgen L., Keyaerts E., Moes E., Thoelen I., Wollants E., Lemey P., Vandamme A.M., Van Ranst M.J. Virol. 79:1595-1604(2005)Research Topic:Others

Note: This product is for in vitro research use only