

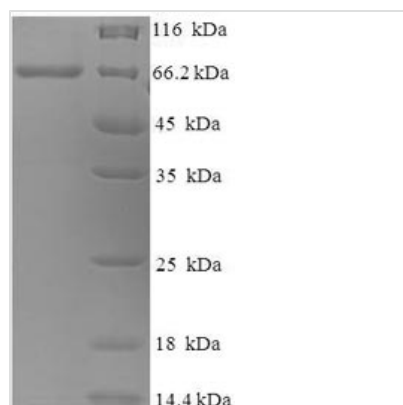


# Recombinant Canine distemper virus Fusion glycoprotein F0 (F), partial

<b>Product Code</b>	CSB-EP318261CCQ
<b>Relevance</b>	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 plasma cell mbrane fusion, the heptad repeat (HR) regions 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 plasma cell mbranes. Directs fusion of viral and cellular mbranes leading to delivery of the nucleocapsid into the cytoplasm. This fusion is pH independent and occurs directly at the outer cell mbrane. The trimer of F1-F2 (F protein) probably interacts with H at the virion surface. Upon HN binding to its cellular receptor, the hydrophobic fusion peptide is unmasked and interacts with the cellular mbrane, inducing the fusion between cell and virion mbranes. Later in infection, F proteins expressed at the plasma mbrane of infected cells could mediate fusion with adjacent cells to form syncytia, a cytopathic effect that could lead to tissue necrosis .
<b>Storage</b>	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.
<b>Uniprot No.</b>	P12569
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Canine distemper virus (strain Onderstepoort) (CDV)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	QIHWDNLSTIGIIGTDNVHYKIMTRPSHQYLVIKLIPNASLIENCTKAELGEYEKLL NSVLEPINQALTLMTKNVKPLQSLGSGRRQRRFAGVVLAVGVALGVATAAQITA GIALHQSNNLNAQAIQSLRTSLEQSNKAIEEIREATQETVIAVQGVQDYVNNELVP AMQHMSCELVGQRLGLRLLRYYTELLSIFGPSLRDPISAEISIQALIYALGGEIHK ILEKLGYSGSDMIAILESIRGIKTITHVDLPKGFIILSISYPTLSEVKGIVVHRLEAV SYNIGSQEWYTTVPRYIATNGYLISNFDDESSCVFVSESAICSQNSLYPMSPLLQ QCIRGDTSSCARTLVSGTMGNKFILSKGNIVANCASILCKCYSTSTIINQSPDKL LTFIASDTCPLVEIDGATIQVGGRQYPDMVYEGKVALGPAISLDRLDVGTLNLGN ALKKLDDAKVLIDSSNQILETVRRSSFNFGS
<b>Lead Time</b>	3-7 business days
<b>Research Area</b>	Others
<b>Source</b>	E.coli
<b>Gene Names</b>	F
<b>Expression Region</b>	136-608aa



<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Mol. Weight</b>	67.5kDa
<b>Protein Description</b>	Partial

**Image**


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

<b>Reconstitution</b>	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.
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