



## Recombinant CSFV E2 Protein [His] (DAGC032)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen Description</b>	Envelope glycoprotein E2 is the major neutralizing antigen for CSFV infection. Vaccines based on E2 protect swine from CSFV and induce neutralizing antibodies. The structural protein E2 of classical swine fever virus (CSFV) has been expressed in different systems. Moreover, CSFV-specific antibody detection tests and animal immunization experiments have been developed using the recombinant E2 protein.
<b>Conjugate</b>	His
<b>Applications</b>	Immunoassays
<b>Molecular Weight</b>	55 kDa
<b>Format</b>	Liquid
<b>Concentration</b>	Batch dependent - please inquire should you have specific requirements
<b>Size</b>	1 mg
<b>Buffer</b>	0.1 mM PB pH7.0
<b>Preservative</b>	None
<b>Storage</b>	Store at 2-8°C

### BACKGROUND

<b>Introduction</b>	CSFV is an enveloped virus of icosahedral symmetry and viral particles measure between 40–60 nm in diameter. The viral genome is a single-stranded positive-sense RNA of approximately 12.3 kb in length with a single open reading frame (ORF) surrounded by two untranslated regions (UTRs), the uncapped 5'-UTR carrying an internal ribosome entry site (IRES), and the uridine-rich 3'-UTR. The ORF encodes a polyprotein that is cleaved into four
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structural (capsid protein C, envelope glycoproteins Erns, E1 and E2) and eight nonstructural proteins (Npro, p7, NS2, NS3, NS4A, NS4B, NS5A and NS5B).

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**Keywords**

Classical swine fever virus; CSFV; E2

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