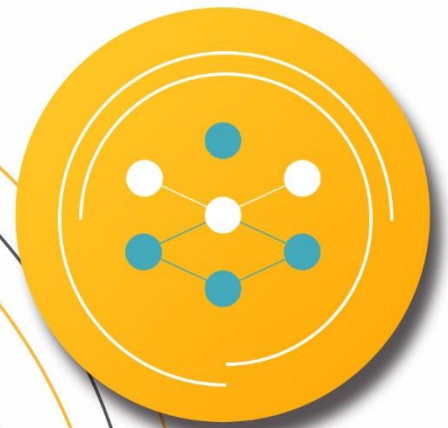
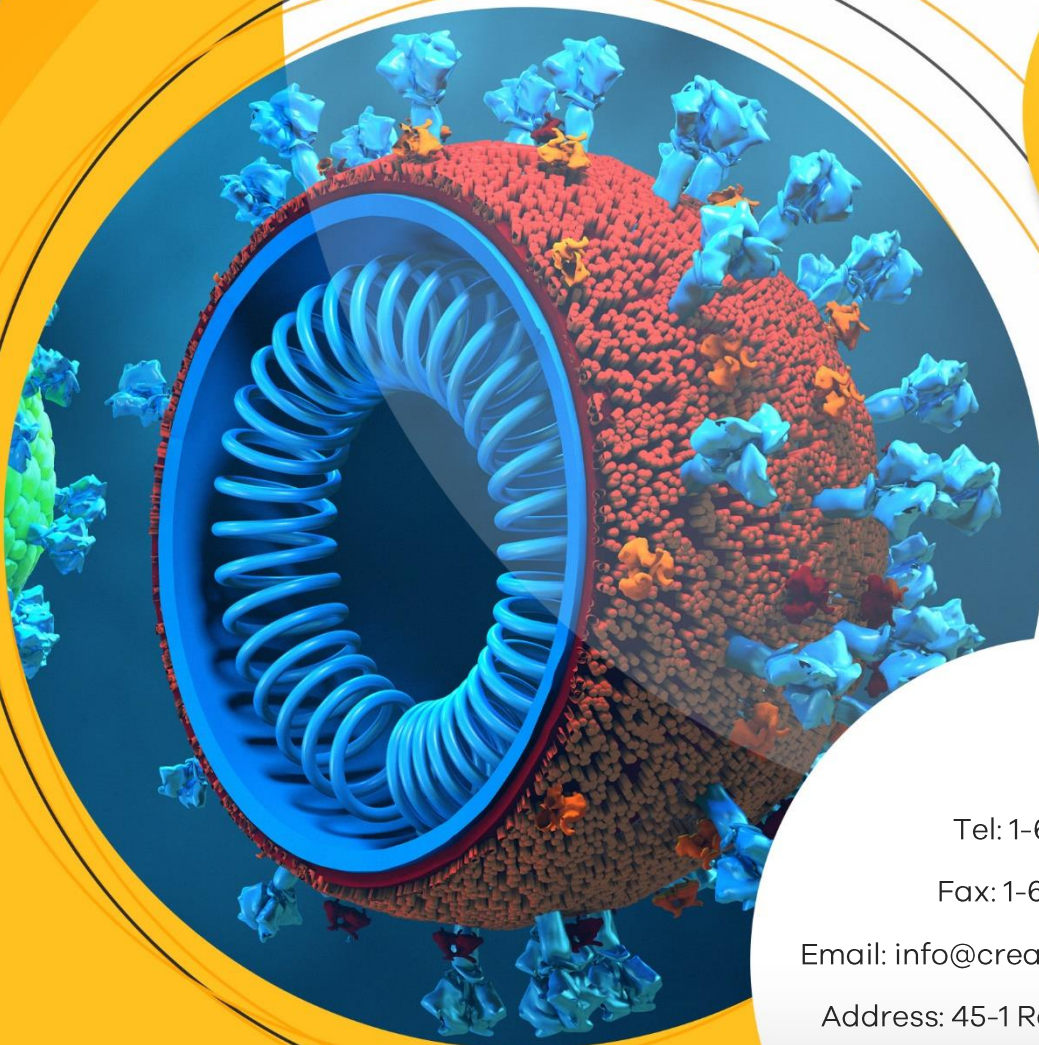




Creative Biostructure

www.creative-biostructure.com

COVID-19 RELATED VLP PRODUCTS



Tel: 1-631-317-1417

Fax: 1-631-207-8356

Email: info@creative-biostructure.com

Address: 45-1 Ramsey Road, Shirley,

NY 11967, USA

SARS-CoV-2 has similar structural features to other coronaviruses. Coronavirus particles have four main structural proteins, namely membrane (M) protein, nucleocapsid (N) protein, spike (S) protein, and envelope (E) protein, and several accessory proteins. Non-infectious virus-like particles (VLPs) displaying crucial viral proteins can be utilized to investigate the structural properties of natural viruses. Besides, VLPs do not contain any viral genetic material and have the potential to trigger a powerful immune response, offering a much safer option for vaccine development.

In the current continuous outbreak of SARS-CoV-2 / COVID-19, as an advanced VLP supplier, **Creative Biostructure** provides several VLP products in the family Coronaviridae. Currently, we have successfully created SARS-CoV-2 VLPs composed of M, N, S, and E in mammalian cells. Listed below are some of our COVID-19 related VLP products.

We offer highly purified COVID-19 related VLP products as antigens for research use only, mostly using a mammalian expression system. **Creative Biostructure** has rich experience in the production of VLPs and can provide custom VLP synthesis services according to your experimental goals.

Products List

COVID-19 VLP (M; N; S; E Proteins) ^{HOT}

Cat.No.: CBS-V925

Source: HEK293

Virus Name: COVID-19

Composition: M, N, S and E

Protein Conc.: -

Purity: 95%

Presentation: 10 mM Tris, 1 M NaCl, pH 7.4 (20% sucrose, 1 mM EDTA)

COVID-19 VLP (S; GFP Protein) ^{HOT}

Cat.No.: CBS-V926

Source: HEK293

Virus Name: COVID-19

Composition: S-his, GFP

Protein Conc.: -

Purity: 90%

Presentation: PBS

COVID-19 VLP (S; Luciferase)^{HOT}

Cat.No.: CBS-V927	Source: HEK293	Virus Name: COVID-19
Composition: S-his, Luciferase	Protein Conc.: -	Purity: 90%
Presentation: PBS		

COVID-19 VLP (M; S; E Proteins)^{HOT}

Cat.No.: CBS-V952	Source: Insect Cell	Virus Name: COVID-19
Composition: S, E and M	Protein Conc.: -	Purity: 85%
Presentation: 20mM Tris-Cl, pH7.9, 100mM NaCl and 0.5mM EDTA		

COVID-19 VLP (M; N; S; E Proteins)^{HOT}

Cat.No.: CBS-V953	Source: Insect Cell	Virus Name: COVID-19
Composition: S, E, N, 6×His-tagged and M	Protein Conc.: -	Purity: 85%
Presentation: 20mM Tris-Cl, pH7.9, 100mM NaCl and 0.5mM EDTA		

COVID-19 VLP (S; Null Protein)^{HOT}

Cat.No.: CBS-V955	Source: HEK293	Virus Name: COVID-19
Composition: S; Null protein	Protein Conc.: -	Purity: 90%
Presentation: PBS		

Mouse hepatitis virus A59 VLP (S; E; M; N Proteins)

Cat.No.: CBS-V673	Source: Mammalian cell recombinant	Virus Name: Mouse hepatitis virus
Composition: S; E; M; N	Protein Conc.: 0.6-1.0 mg/mL	Purity: >90% by SDS-PAGE
Presentation: Phosphate buffered saline at pH 7.4, containing 10% glycerol		

Mouse hepatitis virus A59 VLP (S Proteins)

Cat.No.: CBS-V674 **Source:** Mammalian cell recombinant **Virus Name:** Mouse hepatitis virus
Composition: Spike protein (S) **Protein Conc.:** 0.6-1.0 mg/mL **Purity:** >90% by SDS-PAGE
Presentation: Phosphate buffered saline at pH 7.4, containing 10% glycerol

Mouse hepatitis virus VLP (M; N Proteins)

Cat.No.: CBS-V675 **Source:** Mammalian cell recombinant **Virus Name:** Mouse hepatitis virus
Composition: M; N **Protein Conc.:** 0.6-1.0 mg/mL **Purity:** >90% by SDS-PAGE
Presentation: Phosphate buffered saline at pH 7.4, containing 10% glycerol

SARS-CoV VLP (S; E; M Proteins)

Cat.No.: CBS-V757 **Source:** Insect cell recombinant **Virus Name:** Severe acute respiratory syndrome coronavirus
Composition: S; E; M **Protein Conc.:** 0.6-1.0 mg/mL **Purity:** >90% by SDS-PAGE
Presentation: Phosphate buffered saline at pH 7.4, containing 10% glycerol

SARS-CoV VLP (M; N; S; E Proteins)

Cat.No.: CBS-V758 **Source:** Mammalian cell recombinant **Virus Name:** Severe acute respiratory syndrome coronavirus
Composition: M; N; S; E **Protein Conc.:** 0.6-1.0 mg/mL **Purity:** >90% by SDS-PAGE
Presentation: Phosphate buffered saline at pH 7.4, containing 10% glycerol

SARS-CoV VLP (E; N; M Proteins)

Cat.No.: CBS-V759 **Source:** Mammalian cell recombinant **Virus Name:** Severe acute respiratory syndrome coronavirus
Composition: E; N; M **Protein Conc.:** 0.6-1.0 mg/mL **Purity:** >90% by SDS-PAGE
Presentation: Phosphate buffered saline at pH 7.4, containing 10% glycerol

SARS-CoV VLP (Membrane Protein)**Cat.No.:** CBS-V760**Source:** Mammalian cell recombinant**Virus Name:** Severe acute respiratory syndrome coronavirus**Composition:** Membrane (M) proteins**Protein Conc.:** 0.6-1.0 mg/mL**Purity:** >90% by SDS-PAGE**Presentation:** Phosphate buffered saline at pH 7.4, containing 10% glycerol**Chimeric SARS-CoV & HIV-1 VLP (N; NC Proteins)****Cat.No.:** CBS-V761**Source:** Mammalian cell recombinant**Virus Name:** Severe acute respiratory syndrome coronavirus; HIV-1**Composition:** N; NC**Protein Conc.:** 0.6-1.0 mg/mL**Purity:** >90% by SDS-PAGE**Presentation:** Phosphate buffered saline at pH 7.4, containing 10% glycerol**Chimeric SARS-CoV & MHV VLP (S(SCoV); M(MHV); N(MHV); E(MHV) Proteins)****Cat.No.:** CBS-V762**Source:** Mammalian cell recombinant**Virus Name:** Severe acute respiratory syndrome coronavirus; Mouse hepatitis virus**Composition:** S(SCoV); M(MHV); N(MHV); E(MHV)**Protein Conc.:** 0.6-1.0 mg/mL**Purity:** >90% by SDS-PAGE**Presentation:** Phosphate buffered saline at pH 7.4, containing 10% glycerol