

## Certificate of Analysis

**Name:** SARS-CoV-2 (B.1.1.28) Stabilized Spike Glycoprotein (Full-Length), His-Strep-Tag (HEK293):  
Biotin Conjugate

**Product Code:** REC31944-Biotin-100

**Batch #:**

**Date of Manufacture:**

**Product Description:** Pre-fusion stabilized SARS-CoV-2 Spike protein of the virus variant B.1.1.28 (P1, Brazilian variant) containing amino acid changes L18F, T20N, P26S, D138Y, R190S, K417T, E484K, N501Y, D614G, H655Y, T1027I, V1176F relative to Wuhan Hu-1. The protein was produced in HEK293 cells and purified from culture supernatant. The protein was stabilized using HexaPro as described in Hsieh, Goldsmith et al. 2020. Protein is conjugated to biotin.

**Expression System:** HEK293

**Accession:** 6XKL\_A (with mentioned amino acid changes)

**Strain/Isolate:** B.1.1.28

**Amino Acids:** 16-1205

**Tag:** His-2xStrep-tag, C-terminus

**Expected Molecular Weight (Unconjugated):** 139 kDa

**Observed Molecular Weight (Unconjugated):** 170 kDa

**Amount:** 0.1 mg

**Concentration:** mg/ml

**Purity:** >95%

**Presentation:** Liquid

**Buffer:** PBS+20mM Tris, 1%BSA, trace amounts of ANS and CaCl<sub>2</sub> and 0.1% Proclin 950

### Usage Guidelines

**Short Term Storage:** -80°C

**Long Term Storage:** -80°C

**Stability:** Not determined



**Freezing:** Can be frozen, but avoid multiple freeze-thaw cycles

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**Products are for Research Use or for Further Manufacturing Use only. Not for Diagnostic or Therapeutic Use.**