

# SARS-CoV-2 Epsilon B.1.427 Variant Recombinant Spike Trimer His Tag

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## #2591

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**For Research Use Only. Not For Use In Diagnostic Procedures.**

Applications	Detection	Clonality	Isotype
ELISA	Anti-SARS-CoV-2 mAb	SARS-CoV-2	SARS-CoV-2

**Format:** His tag

**Cross Reactivity:** Predicted to work with mouse, rat and other homologues.

**Formulation:** 1X PBS, 0.025% NaN<sub>3</sub>

**Preparation:** His tag purification

**Reactivity:** Other

### Recommended

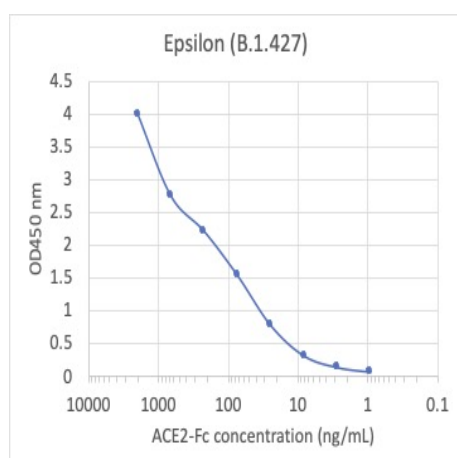
**Usage:** Control antigen for SARS-CoV-2 (COVID-19) diagnostic assays. Contains C-terminal His tag used for purification.

**Immunogen:** N/A

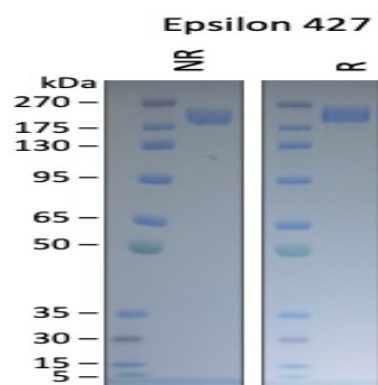
**Description:** N/A

**References:**

- 1.Walls A.C. et al., Cell 2019, 176: 1026-1039.
- 2.Tang T. et al., 2020, Antiviral Res., 178:10479.
- 3.Jiang S et al., 2022, Trends Immunol, 41:355-359.
- 4.Bosch BJ, et al., 2003, J Virol 77:8801-8811.



Concentration-response curves for binding of CoV2 spike protein to human ACE2 in cell-free ELISA-type assays. Microtiter wells were coated with 100  $\mu$ L of each spike trimer at 2  $\mu$ g/mL in PBS at 4°C overnight. The wells were washed with PBS and blocked with 200  $\mu$ L of 1% BSA/PBS. ACE2-Fc was serially diluted from 2  $\mu$ g/mL in 1% BSA/PBS. The blocker was discarded, and the wells were incubated with 100  $\mu$ L of serially diluted ACE2-Fc at 37°C for 1 hour. The wells were washed with PBS and the bound ACE2-Fc was detected with 100  $\mu$ L of Peroxidase AffiniPure Goat Anti-Human IgG, Fc $\gamma$  fragment specific (Jackson Immuno Research 109-035-098)(1:5,000 in 1% BSA/PBS) at 37°C for 1 hour. The wells were washed with PBS and the wells were developed with 100  $\mu$ L of MB/E Ultra Sensitive, Blue, Horseradish Peroxidase Substrate (EMD Millipore ES022-500ml) at RT for 5 min. The reaction was stopped with 100  $\mu$ L of 0.6N H<sub>2</sub>SO<sub>4</sub> and the signals were read at 450 nm using a plate reader (Biotek).



SARS-CoV-2 spike protein variant purity by SDS-PAGE. Separation of SARS-CoV-2 spike recombinant protein (8xHis-Tag, 2 ug) reduced (R) and non-reduced (NR) condition followed by Coomassie blue staining shows >90% purity.