



# DNA Aptamer against SARS-CoV-2 Spike Protein

SKU# **APT-047**: DNA Aptamer against SARS-CoV-2 Spike Protein

## Background

The SARS-CoV-2 spike protein is the largest of the four major structural proteins found in Covid-19 viruses. The spike protein assembles into trimers that form large structures, called spikes or peplomers, that project from the surface of the virion. The function of the spike glycoprotein is to mediate viral entry into the host cell by first interacting with molecules on the exterior cell surface and then fusing the viral and cellular membranes.

**Aptamer type:** DNA aptamer

**Aptamer length:** 79 bp

**Affinity KD:** 89.41  $\pm$  18 nM

## Kit contents

The following components are included in the Kit.

|            | Component                             | Quantity |
|------------|---------------------------------------|----------|
| APT-047-10 | Single strand DNA, lyophilized powder | 10 nmol  |
| APT-047-30 | Single strand DNA, lyophilized powder | 30 nmol  |

- Store at -20°; reagents are guaranteed stable for 12 months when properly stored.

## References

Martínez-Roque, M. A., et al., DNA aptamer selection for SARS-CoV-2 spike glycoprotein detection. *Analytical biochemistry*, 2022, 645, 114633.