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# DNA Aptamer against Programmed Death-Ligand 1

SKU# APT-052: DNA Aptamer against Programmed Death-Ligand 1

## Background

**Programmed death ligand 1 (PD-L1)** is a surface glycoprotein that induces T-cell anergy or apoptosis by binding to PD-1 on activated T and B cells. PD-L1 is a 40kDa type 1 transmembrane protein that has been speculated to play a major role in suppressing the adaptive arm of immune systems during particular events such as pregnancy, tissue allografts, autoimmune disease and other disease states such as hepatitis. PD-L1 expression varies, and can be predicted by tumor differentiation. PD-L1 regulates the immune system and is involved in cancer.

**Aptamer type:** DNA aptamer

**Aptamer length:** 76 bp

**Affinity KD:** 95.73 ± 14.27 nM

## Kit contents

The following components are included in the Kit.

	Component	Quantity
APT-052-10	Single strand DNA, lyophilized powder	10 nmol
APT-052-30	Single strand DNA, lyophilized powder	30 nmol

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

## References

Gao, T., et al., Anti-PD-L1 DNA aptamer antagonizes the interaction of PD-1/PD-L1 with antitumor effect. Journal of materials chemistry. B, 2021, 9(3): 746–756.