



# DNA Aptamer against Lipocalin-2

SKU# APT-010: DNA Aptamer against Lipocalin-2

## Background

Lipocalin-2 (LCN2) is a secreted carrier protein that binds to catecholate siderophores, which are iron-containing molecules that bacteria need to grow. By binding to these siderophores, LCN2 limits the amount of iron available to bacteria, which prevents their growth. LCN2 plays a role in many processes, including inflammation, metabolism, and innate immunity. LCN2 is a biomarker of inflammation, and its levels increase in response to inflammatory stress. LCN2 can promote inflammation by recruiting inflammatory cells and inducing proinflammatory cytokines.

**Aptamer type:** DNA aptamer

**Aptamer length:** 80 bp

**Affinity KD:** 0.92 nM

## Kit contents

The following components are included in the Kit.

	Component	Quantity
APT-010-10	Single strand DNA, lyophilized powder	10 nmol
APT-010-30	Single strand DNA, lyophilized powder	30 nmol

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

## References

Wang, J., et al., Multiparameter Particle Display (MPPD): A Quantitative Screening Method for the Discovery of Highly Specific Aptamers. *Angew Chem Int Ed Engl.* 2017, 56(3):744-747.