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# DNA Aptamer against Apolipoprotein E3

**SKU# APT-001:** DNA Aptamer against Apolipoprotein E3

## Background

Apolipoprotein E (ApoE) is a protein that helps the body metabolize fats and cholesterol. ApoE combines with fats to form lipoproteins, which transport cholesterol and other fats through the bloodstream. ApoE also helps repair injuries in the brain. ApoE is a genetic factor in several health conditions, including Alzheimer's disease, cardiovascular diseases and viral infections. The APOE gene has multiple alleles, or slightly different versions, with the most common being E3.

**Aptamer type:** DNA aptamer

**Aptamer length:** 59 bp

**Affinity KD:** 0.938 nM

## Kit contents

The following components are included in the Kit.

	Component	Quantity
APT-001-10	Single strand DNA, lyophilized powder	10 nmol
APT-001-30	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., Particle display: a quantitative screening method for generating high-affinity aptamers, *Angew. Chemie – Int. Ed.* 2014, 53: 4796–4801.