



DNA Aptamer against NT-proBNP

SKU# APT-011: DNA Aptamer against N-terminal propeptide of B-type natriuretic peptide (NT-proBNP)

Background

N-terminal pro-B-type natriuretic peptide (NT-proBNP) is a protein that helps regulate blood pressure, blood volume, and sodium balance. It's a key component of the B-type natriuretic peptide (BNP) hormone, and both are produced by the heart when it's working harder to pump blood. NT-proBNP is used as a diagnostic tool to help detect heart failure and acute decompensated heart failure. It's also a risk factor for atrial fibrillation and stroke, as cardiac dysfunction is linked to stroke.

Aptamer type: DNA aptamer

Aptamer length: 72 bp

Affinity KD: 2.89 nM

Kit contents

The following components are included in the Kit.

	Component	Quantity
APT-011-10	Single strand DNA, lyophilized powder	10 nmol
APT-011-30	Single strand DNA, lyophilized powder	30 nmol

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

References

Sinha, A., et al., An integrated microfluidic platform to perform uninterrupted SELEX cycles to screen affinity reagents specific to cardiovascular biomarkers, *Biosens. Bioelectron.* 122 (2018) 104–112.