



DNA Aptamer against Cardiac Troponin I

SKU# APT-008: DNA Aptamer against Cardiac Troponin I

Background

Cardiac Troponin I is a protein that appears in the blood only when the heart muscle is damaged, such as during a heart attack. It is a sensitive and specific indicator of heart muscle damage. Troponin I is part of the troponin protein complex, where it binds to actin in thin myofilaments to hold the actin-tropomyosin complex in place.

Aptamer type: DNA aptamer

Aptamer length: 72 bp

Affinity KD: 19.8 nM

Kit contents

The following components are included in the Kit.

| | Component | Quantity |
|------------|---------------------------------------|----------|
| APT-008-10 | Single strand DNA, lyophilized powder | 10 nmol |
| APT-008-30 | Single strand DNA, lyophilized powder | 30 nmol |

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

References

Komarova, K., et al., Aptamers targeting cardiac biomarkers as an analytical tool for the diagnostics of cardiovascular diseases: a review, *Biomedicines* 2022, 10: 1085.