



DNA Aptamer against Thrombin

SKU# APT-015: DNA Aptamer against Thrombin

Background

Thrombin is a protein that plays a vital role in blood clotting and inflammation. The liver produces thrombin as an inactive precursor called prothrombin. When the coagulation cascade is activated, other proteases split prothrombin to form thrombin. Thrombin is a serine protease that converts fibrinogen into fibrin, which forms a network that stabilizes blood clots. Thrombin also activates platelets and catalyzes other coagulation-related reactions.

Aptamer type: DNA aptamer

Aptamer length: 60 bp

Affinity KD: 7.04 pM

Kit contents

The following components are included in the Kit.

| | Component | Quantity |
|------------|---------------------------------------|----------|
| APT-015-10 | Single strand DNA, lyophilized powder | 10 nmol |
| APT-015-30 | 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.* 53 (2014) 4796–4801,