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# DNA Aptamer against Hemoglobin

SKU# APT-007: DNA Aptamer against Hemoglobin

## Background

Hemoglobin (Hb) is a protein in red blood cells that carries oxygen from the lungs to the body's tissues and organs. It also carries carbon dioxide back to the lungs. Hemoglobin contains iron, which allows it to pick up oxygen from the air we breathe.

- Low hemoglobin levels can be a symptom of several conditions, including anemia, cancer, and chronic kidney disease. Symptoms include feeling very tired and weak.
- High hemoglobin levels can cause your blood to thicken and become sluggish, which can deprive your organs of oxygen. Symptoms include headaches, blurred or double vision, dizziness, itching, and blood clots.

**Aptamer type:** DNA aptamer

**Aptamer length:** 72 bp

**Affinity KD:** 7.3 ±2.2 nM

## Kit contents

The following components are included in the Kit.

	Component	Quantity
APT-007-10	Single strand DNA, lyophilized powder	10 nmol
APT-007-30	Single strand DNA, lyophilized powder	30 nmol

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

## References

Lin, H.I., et al., Selection of aptamers specific for glycated hemoglobin and total hemoglobin using on-chip SELEX, Lab Chip 15 (2015) 486–494.