
DNA Aptamer against Vascular endothelial growth factor-165

SKU# **APT-018**: DNA Aptamer against Vascular endothelial growth factor-165 (VEGF-165)

Background

Vascular endothelial growth factor-165 (VEGF-165) is a protein that plays a key role in angiogenesis, vascular cell survival, and other processes. VEGF-165 is produced by a number of cells, including endothelial cells, macrophages, and T cells. It binds to the receptor tyrosine kinases VEGFR1 and VEGFR2, and activates the PI3K/AKT and p38 MAPK pathways.

Aptamer type: DNA aptamer

Aptamer length: 48 bp

Affinity KD: 0.65 pM

Kit contents

The following components are included in the Kit.

	Component	Quantity
APT-018-10	Single strand DNA, lyophilized powder	10 nmol
APT-018-30	Single strand DNA, lyophilized powder	30 nmol

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

References

Kimoto, M., et al., Generation of high-affinity DNA aptamers using an expanded genetic alphabet, Nat. Biotechnol. 31 (2013) 453–457.