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# RNA Aptamer against Interleukin-8 receptor

SKU# APT-058: RNA Aptamer against Interleukin-8 receptor (IL-8R)

## Background

Interleukin 8 (IL-8) or chemokine (C-X-C motif) ligand 8, (CXCL8), is a chemokine produced by macrophages and other cell types such as epithelial cells, airway smooth muscle cells and endothelial cells. IL-8, a neutrophil chemotactic factor, has two primary functions. It induces chemotaxis in target cells, primarily neutrophils but also other granulocytes, causing them to migrate toward the site of infection. IL-8 also stimulates phagocytosis once they have arrived. IL-8 is also known to be a potent promoter of angiogenesis.

**Aptamer type: RNA aptamer**

**Aptamer length: 30 bp**

**Affinity KD: 1.22  $\mu$ M**

## Kit contents

The following components are included in the Kit.

|            | Component                             | Quantity |
|------------|---------------------------------------|----------|
| APT-058-10 | Single strand RNA, lyophilized powder | 10 nmol  |
| APT-058-30 | Single strand RNA, lyophilized powder | 30 nmol  |

- Store at  $-80^{\circ}$ ; reagents are guaranteed stable for 12 months when properly stored.

## References

Sung, H. J., et al., Inhibition of human neutrophil activity by an RNA aptamer bound to interleukin-8. *Biomaterials*, 2014, 35(1): 578–589.