
Product Data Sheet

Cat#: AD-124-U

Cat#: AD-124-B, Biotin labeled

Cat#: AD-124-F, FITC labeled

Product Description: IgE (4.4.12)

Aptamer Type: DNA

Sequence: 5'-

AGCAGCACAGAGGTCAGATGTGAAACATAGCATATTTACTTATGTGCGCCTTGCCGGTTCCTATGCGTGCTACCGTGAA-3'; 78-mer

Size 100 nM

Mol. Wt: 24050.67 g/mole

Purity: >95%

Affinity: 23 nM (reported value)

Comments: The selectivity was not selected for, but rather a byproduct of the high affinity for human IgE.

Notes: Aptamers with high affinity for human IgE were selected using capillary electrophoresis to demonstrate the compatibility of this technique with SELEX. The high selectivity and efficiency of CE gave rise to a very high rate of enrichment, allowing high-affinity, high-selectivity aptamers to be obtained in only four rounds of selection exhibited high specificity for human IgE when compared with human IgG or mouse IgE.

References: Mendonsa, Shaun D. and Bowser, Michael T. "In Vitro Selection of High-Affinity DNA Ligands for Human IgE Using Capillary Electrophoresis." *Analytical Chemistry*, 76 (2004): 5387-5392.

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