

Product Data Sheet

Cat#: AD-126-U

Cat#: AD-126-B, Biotin labeled

Cat#: AD-126-F, FITC labeled

Product Description: L-Selectin (LD201)

Aptamer Type: DNA

Sequence: 5'-
CTACCTACGATCTGACTAGCCAAGGTAACCAGTACAAGGTGCTAAACGTAATGGCTTCGGCTTACTCTCATGTAGTTCC-3'; 79-mer

Size 100 nM

Mol. Wt: 24243.79 g/mole

Purity: >95%

Affinity: 1.8 nM (reported value)

Comments: Contains a horseradish peroxidase-like DNAzyme with a region complementary to the Lysozyme Aptamer DNA Blocker (highlighted green in the structure). In the presence of the blocker, the two oligonucleotides hybridize, inactivating the DNAzyme.

Notes: Selectins participate in the initial events leading to leukocyte extravasation from the blood into tissues and are targets for antiinflammatory agents. In vitro, the deoxyoligonucleotides inhibit L-selectin binding to immobilized SLEX in static assays and inhibit L-selectin-mediated rolling of human lymphocytes and neutrophils on cytokine-activated endothelial cells in flow-based assays. These aptamers also block L-selectin-dependent lymphocyte trafficking in vivo, indicating their potential utility as therapeutics.

References: Hicke, Brain, et al. "DNA Aptamers Block L-Selectin Function In Vivo Inhibition of Human Lymphocyte Trafficking in SCID Mic." Journal of Clinical Investigation, 98 (1996): 2688-2692.

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