
Product Data Sheet

Cat#: AD-123-U
Cat#: AD-123-B, Biotin labeled
Cat#: AD-123-F, FITC labeled

Product Description: HIV-1 TAR RNA Hairpin Loop (B22-19)

Aptamer Type: DNA

Sequence: 5'-CCCTAGTTAGCCATCTCCC-3'; 19-mer

Size 100 nM

Mol. Wt: 5659.71 g/mole

Purity: >95%

Affinity: 50 nM (reported value)

Comments: n/a

Notes: In vitro selection was performed to identify DNA aptamers against the TAR RNA stem-loop structure of HIV-1 which contained 2 consensus sequence one targeted to the stem 3'-strand (5'-CCCTAGTTA) and the other complementary to the TAR apical loop (5'-CTCCC). Experiments performed to elucidate the interaction between TAR and the aptamers (UV melting measures, enzymatic and chemical footprints) demonstrated that the TAR stem 5'-strand was not simply displaced as a result of the complex formation but unexpectedly remained associated on contact with the antisense oligonucleotide.

References: Sekkai, Dalila, et al. "In Vitro Selection of DNA Aptamers Against the HIV-1 TAR RNA Hairpin." *Antisense and Nucleic Acid Drug Development*, 12 (2002): 265-274.

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