Product Data Sheet

Cat#: AD-140-U
Cat#: AD-140-B, Biotin labeled
Cat#: AD-140-F, FITC labeled

Product Description: RNase H1 (VI-2)

Aptamer Type: DNA

Sequence: 5'-CGGTCGCTCCGTGTGGCTTGGGTTGGGTGTGGCAGTGAC-3'; 39-mer

Size **Custom**

Mol. Wt: 12149.88 g/mole

Purity: >95%

Affinity: 11 nM (reported value)

Comments: n/a

Notes: Human RNase H1 binds double-stranded RNA via its N-terminal domain and RNA-DNA hybrid via its C-terminal RNase H domain. Two (V2, V1-2) of the 37 DNA aptamers selected were inhibitors of human RNase H1 activity abolishing the action of an antisense oligonucleotide in a rabbit reticulocyte lysate supplemented with human RNase H1, with IC50 ranging from 50 to 100 nM.

References: Pileur, et al. "Selective inhibitory DNA aptamers of the human RNase H1." Nucleic Acids Research, 31 (2003): 5776-5788.

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