

Product Data Sheet

Cat#: AD-119-U
Cat#: AD-119-B, Biotin labeled
Cat#: AD-119-F, FITC labeled

Product Description: Hepatitis C Virus RdRp (r10/43)

Aptamer Type: DNA

Sequence: 5'-
GGGAGACAAGAATAAACGCTCAAGGGCGTGGTGGGTGGGGTACTAATAATGTGCGTTTGTTCGACAGGAGGCTCACAAACAGGC-3';
83-mer

Size 100 nM

Mol. Wt: 25933.89 g/mole

Purity: >95%

Affinity: 1.3 nM (reported value)

Comments: n/a

Notes: DNA aptamers r10/43 and r10/47, to the RNA-dependent RNA polymerase (RdRp) (nonstructural protein 5B [NS5B]) of HCV subtype 3a, with the aim of inhibiting polymerase activity were studied. Inhibition of HCV 3a polymerase was specific for r10/47, while r10/43 also demonstrated some inhibitory effect on norovirus and 6 polymerase activity. Neither r10/43 nor r10/47 was able to inhibit the RdRp activity of HCV genotype 1a and 1b polymerases. This study is the first description of an inhibitor specific to the HCV subtype 3a polymerase.

References: Jones et al. "High-Affinity Aptamers to Subtype 3a Hepatitis C Virus Polymerase Display Genotypic Specificity." *Antimicrobial Agents and Chemotherapy*, 50 (2006): 3019-3027.

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