

## Product Data Sheet

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**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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