

## Product Data Sheet

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

**Product Description:** RNase H1 (V1-2)

**Aptamer Type:** DNA

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

**Size** 100 nM

**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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