

## Product Data Sheet

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**Cat#:** AD-113-U  
**Cat#:** AD-113-B, Biotin labeled  
**Cat#:** AD-113-F, FITC labeled

**Product Description:** Daunomycin (10.10)

**Aptamer Type:** DNA

**Sequence:** 5'-ACCATCTGTGTAAGGGGTAAGGGGTGGGGGTACGTCT-3'; 37-mer

**Size** 100 nM

**Mol. Wt:** 11581.57 g/mole

**Purity:** >95%

**Affinity:** 272 nM (reported value)

**Comments:** n/a

**Notes:** Daunomycin is a cancer chemotherapeutic agent. The active dose of the drug is reduced in the blood as it is excreted unmetabolized via urine, therefore, diminishes its cancer-combating effects. Aptamers were isolated from a 40-nt random library with a theoretical diversity of  $10^{14}$  different species that displayed high affinity for the target molecule daunomycin. One aptamer was further characterized and exhibited a dissociation constant (KD) of 20 nM.

**References:** Wochner et al. "A DNA aptamer with high affinity and specificity for therapeutic anthracyclines." Analytical Biochemistry, 373(2008): 34-42.

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