



## Product Data Sheet

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**Cat#:** AD-104-U  
**Cat#:** AD-104-B, Biotin labeled  
**Cat#:** AD-104-F, FITC labeled

**Product Description:** Adenosine/ATP (DH25.42)

**Aptamer Type:** DNA

**Sequence:** 5'-CCTGGGGGAGTATTGCGGAGGAAGG-3'; 25-mer

**Size** 100 nM

**Mol. Wt:** 7868.16 g/mole

**Purity:** >95%

**Affinity:** 1 mM (reported value)

**Comments:** Forms a G-quartet

**Notes:** In vitro selection to isolate adenosine/ATP-binding DNA sequences from a pool of approximately  $2 \times 10^{14}$  different random-sequence single-stranded DNA molecules were isolated. A model of the ATP-binding DNA structure which is based on a stable framework composed of two stacked G-quartets were proposed.

**References:** Huizenga and Szostak. "A DNA Aptamer That Binds Adenosine and ATP." *Biochemistry*, 34 (1995): 656-665.

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