

Product Data Sheet

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 2×10^{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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