



Product Data Sheet

Cat#: AD-110-U
Cat#: AD-110-B, Biotin labeled
Cat#: AD-110-F, FITC labeled

Product Description: Cellobiose (Cel#16)

Aptamer Type: DNA

Sequence: 5'-GCGGGGTTGGGCGGGTGGGTCGCTGGGCAGGGGGCGAGTG-3'; 41-mer

Size 100 nM

Mol. Wt: 12988.40 g/mole

Purity: >95%

Affinity: 600 nM (reported value)

Comments: Other selected clones tended to also be G-rich, with the total pool possessing 50-60% G content.

Notes: DNA ligands that recognize and bind with high affinity to the disaccharide cellobiose, whether in soluble form or as the repeating unit of the polymer, with little or no affinity for the related disaccharides lactose, maltose, and gentiobiose is reported here. The increased affinity of aptamer ligands compared with protein ligands might make these nucleic acids attractive alternatives to lectin or mAb detection reagents for carbohydrate antigens.

References: Shangguan et al. "Optimization and Modifications of Aptamers Selected from Live Cancer Cell Lines" Chem. Biochem. 8 (2007): 603-6.

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