

Product Data Sheet

Cat#: AD-116-U
Cat#: AD-116-B, Biotin labeled
Cat#: AD-116-F, FITC labeled

Product Description: Fibrinogen (85A/Ap90)

Aptamer Type: DNA

Sequence: 5'-
CCTTCGTTGTCTGCCTTCGTAGGACCGCAGACATCGACGCAGGGAAATTCCGCAAGTCCAGCCAAATGCCACCCTTCA
GAATTCGCACCA-3'; 90-mer

Size 100 nM

Mol. Wt: 27523.83 g/mole

Purity: >95%

Affinity: 63.8 nM (reported value)

Comments: Kd = 6.4 nM if thymidines are boronic acid modified.

Notes: Using fibrinogen as a model, boronic acid-modified thymidine-5'-triphosphate DNA aptamers that have high affinities (low nM Kd) and the ability to recognize changes in the glycosylation site were selected. The method developed can be applied to the development of aptamers for other glyco-products, such as glycolipids and glycopeptides.

References: Li, M et al. "Selecting Aptamers for a Glycoprotein through the Incorporation of the Boronic Acid Moiety." J. Am. Chem. Soc., 2008, 130 (38), pp 12636–12638.

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