

Product Data Sheet

Cat#:	AD-136-U
Cat#:	AD-136-B, Biotin labeled
Cat#:	AD-136-F, FITC labeled
Product Description:	Platelet-Derived Growth Factor B-chain (36t)
Aptamer Type:	DNA
Sequence:	5'-CACAGGCTACGGCACGTAGAGCATCACCATGATCCTGTGT-3'; 40-mer
Size	100 nM
Mol. Wt:	12266.00 g/mole
Purity:	>95%
Affinity:	0.094 nM (reported value)
Comments:	Contains a terminal 3'-3'-linked thymidine residue to protect from 3' exonuclease degradation.
Notes:	A group of DNA molecules that bind to platelet-derived growth factor (PDGF)-AB with subnanomolar affinity from a randomized DNA library using in vitro selection is deduced here. Individual ligands cloned from the affinity-enriched pool bind to PDGF-AB and PDGF-BB with comparably high affinity (K_d approximately 10^{-10} M) and to PDGF-AA with lower affinity ($> 10^{-8}$ M), indicating specific recognition of the PDGF B-chain in the context of the hetero- or homodimer.
References:	Green, L., et al. "Inhibitory DNA Ligands to Platelet-Derived Growth Factor B-Chain." Journal of Biochemistry, 35(1996): 14413-14424.

150813V