

Product Data Sheet

Cat#:	AD-133-U
Cat#:	AD-133-B, Biotin labeled
Cat#:	AD-133-F, FITC labeled
Product Description:	PCB106 (Aptamer 9.3)
Aptamer Type:	DNA
Sequence:	5'-AGC AGC ACA GAG GTC AGA TG CAC TCG GAC CCC ATT CTC CTT CCA TCC CTC ATC CGT CCA C CCT ATG CGT GCT ACC GTG AA -3'; 80-mer
Size	100 nM
Mol. Wt:	24336.74 g/mole
Purity:	>95%
Affinity:	99 nM (reported value)
Comments:	n/a
Notes:	PCB-binding DNA aptamers were developed using PCB72 and PCB106 as targets for aptamer selection. PCBs are organic pollutants that are toxic and cause cancer. This technique is affordable, sensitive, and high-throughput assay for the detection of PCBs in food and environmental samples and offers a promising alternative to existing methods of PCB quantitation.
References:	Mehta et al. "Selection and characterization of PCB-binding DNA aptamers." Analytical Chemistry, DOI: 10.1021/ac202960.

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