Product Data Sheet

Cat#: AD-107-U
Cat#: AD-107-B, Biotin labeled
Cat#: AD-107-F, FITC labeled

Product Description: Apple Stem Pitting Virus of PSAH PearIsolate

Aptamer Type: DNA

Sequence: 5'-AGCAAGGTTTGGTGTTGGTTGGTTGCTGGTTTTGGTTTC-3'; 39-mer

Size 100 nM

Mol. Wt: 12158.96 g/mole

Purity: >95%

Affinity: 8.0 nM (reported value)

Comments: N/A

Notes: SELEX procedure was used to determine aptamers that bind the virus coat protein of apple stem pitting virus (ASPV coat protein coding sequences of MT32 isolate from apple (AF438521) and PSA-H isolate from pear (D21828)) as an alternative to antibody based immunoassays. Diagnosis methods, such as dot and Western blot analyses and enzyme-linked oligonucleotide assay (ELONA) were used of which ELONA was flexible and cost effective. The G tetrad represented the key structural motif for target binding

References: Balogh, et al. "Selection and versatile application of virus-specific aptamers." FASEB Journal, 24(2010): 4187-4195.

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