ALPHA DIAGNOSTIC INTERNATIONAL

Product Data Sheet

Cat#: AD-142-U
Cat#: AD-142-B, Biotin labeled
Cat#: AD-142-F, FITC labeled

Product Description: Small-cell lung cancer (HCH07)

Aptamer Type: DNA

Sequence: 5'-TACCAGTGCGATGCTCAGGCCGATGTCAACTTTTTCTAACTCACTGGTTTTGCCTGACGCATTCGGTTGAC-3'; 71-mer

Size **Custom**

Mol. Wt: 21768.15 g/mole

Purity: >95%

Affinity: 38 nM (reported value)

Comments: n/a

Notes: Aptamers based on Cell-SELEX enrichment technique was developed against small cell lung cancer markers. Aptamers bind with high affinity and specificity. When conjugated with magnetic and fluorescent nanoparticles, the aptamer nano-conjugates could effectively extract SCLC cells from mixed cell media for isolation, enrichment, and sensitive detection.

References: Chen, Hui, et al. "Molecular Recognition of Small-Cell Lung Cancer Cells Using Aptamers." CHEMMEDCHEM, 3 (2008): 991-1001.

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