

## 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'-  
TACCAGTGCGATGCTCAGGCCGATGTCAACTTTTTCTAACTCACTGGTTTTGCCTGACGCATTGCGTTGAC-3'; 71-mer

**Size** 100 nM

**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.

150813V