

## Product Data Sheet

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**Cat#:** AD-109-U  
**Cat#:** AD-109-B, Biotin labeled  
**Cat#:** AD-109-F, FITC labeled

**Product Description:** CCRF-CEM (SGC8c)

**Aptamer Type:** DNA

**Sequence:** 5'-ATCTAACTGCTGCGCCGCCGGGAAAATACTGTACGGTTAGA-3'; 41-mer

**Size** 100 nM

**Mol. Wt:** 12634.26 g/mole

**Purity:** >95%

**Affinity:** 0.78 nM (reported value)

**Comments:** This aptamer is a truncated version of sgc8. Huang et al. (2009) conjugated doxorubicin to sgc8c through a hydrazone linker. The sgc8c-doxorubicin conjugate was internalized through receptor-mediated uptake and doxorubicin was released in the endosome.

**Notes:** A group of aptamers specific for leukemia cell recognition was generated using a human T-cell acute lymphoblastic leukemia cell line as target. With an equilibrium dissociation constant ( $K_d$ ) in the nm to pm range, they can specifically recognize target leukemia cells that have been mixed with normal human bone marrow aspirates.

**References:** Shangguan et al. "Optimization and Modifications of Aptamers Selected from Live Cancer Cell Lines" Chem. Biochem. 8 (2007): 603-6.

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