

Product Data Sheet

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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India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com