Supplementary Information

Bulge Oligonucleotide as an Inhibitory Agent of Bacterial Topoisomerase I

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(A)

(B)

s1
Inhibitory effect of Bulge-1-3 on Bacterial Topoisomerase I

IC$_{50}$ = 111.7 nM

(C)

Inhibitory effect of Bulge-1-4 on Bacterial Topoisomerase I

IC$_{50}$ = 91.2 nM

(D)
Figure S1. Correlations between concentration of B-1-1 (A), B-1-2 (B), B-1-3 (C), B-1-4 (D), B-1-5 (E), B-1-10 (F) and the corresponding inhibitory effects on Btope I. Percentages of pUC 19 relaxation were defined as the ratio of band density of relaxed DNA over the some of relaxed DNA plus supercoiled DNA [relaxed DNA/ (relaxed DNA + supercoil DNA)].

The DNA bands were quantified using Gel Documentation System (G:Box HR, Syngnene, Cambridge, UK) equipped with Gene Tools Software.

References for Supplementary Information:
1. J. P. Laine, P. L. Opresko, F. E. Indig, J. A. Harrigan, C. von Kobbe and V. A. Bohr, Cancer Res, 2003, 63, 7136-7146.