

Cell line	CD123 Copy Number	7E7 ADC IC50 (nM)	11C3 ADC IC50 (nM)	8C2 ADC IC50 (nM)
MOLM-14	30,000	2.4 ± 0.12	1.4 ± 0.069	37 ± 2.9
KG-1	9,400	8.8 ± 1.0	6.6 ± 0.68	40 ± 5.1
Kasumi-3	2,000	11 ± 1.0	5.3 ± 0.81	37 ± 2.7
MV-4-11	26,100	2.6 ± 0.15	1.6 ± 0.11	32 ± 2.4
Namalwa	0	37 ± 3.0	37 ± 2.7	33 ± 3.0

Supplemental Table S2. CD123 expression level and *in vitro* cytotoxicity of anti-CD123 DM4-ADCs in AML cell lines. Table includes CD123 expression level, cytotoxic IC50 and standard error of triplicate samples. The data on CD123 copy number of different tested cell lines were taken from Li et al [1].

1. Li F, Sutherland MK, Yu C, Walter RB, Westendorf L, Valliere-Douglass J, Pan L, Cronkite A, Sussman D, Klussman K, Ulrich M, Anderson ME, Stone IJ, Zeng W, Jonas M, Lewis TS, Goswami M, Wang SA, Senter PD, Law C-L, Feldman EJ and Benjamin DR (2018) Characterization of SGN-CD123A, A Potent CD123-Directed Antibody–Drug Conjugate for Acute Myeloid Leukemia. *Molecular Cancer Therapeutics* 17:554. doi: 10.1158/1535-7163.MCT-17-0742

