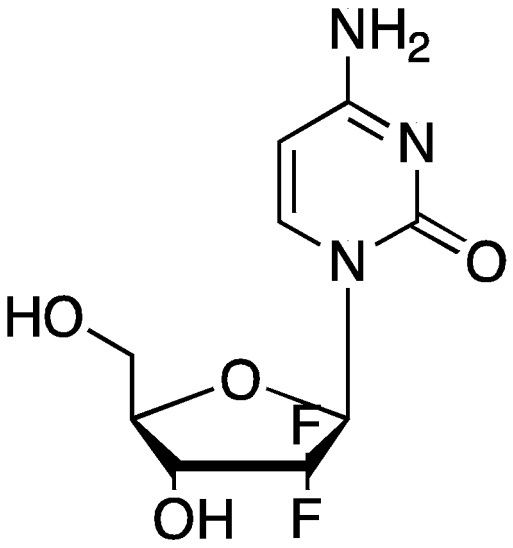


Fig. 1

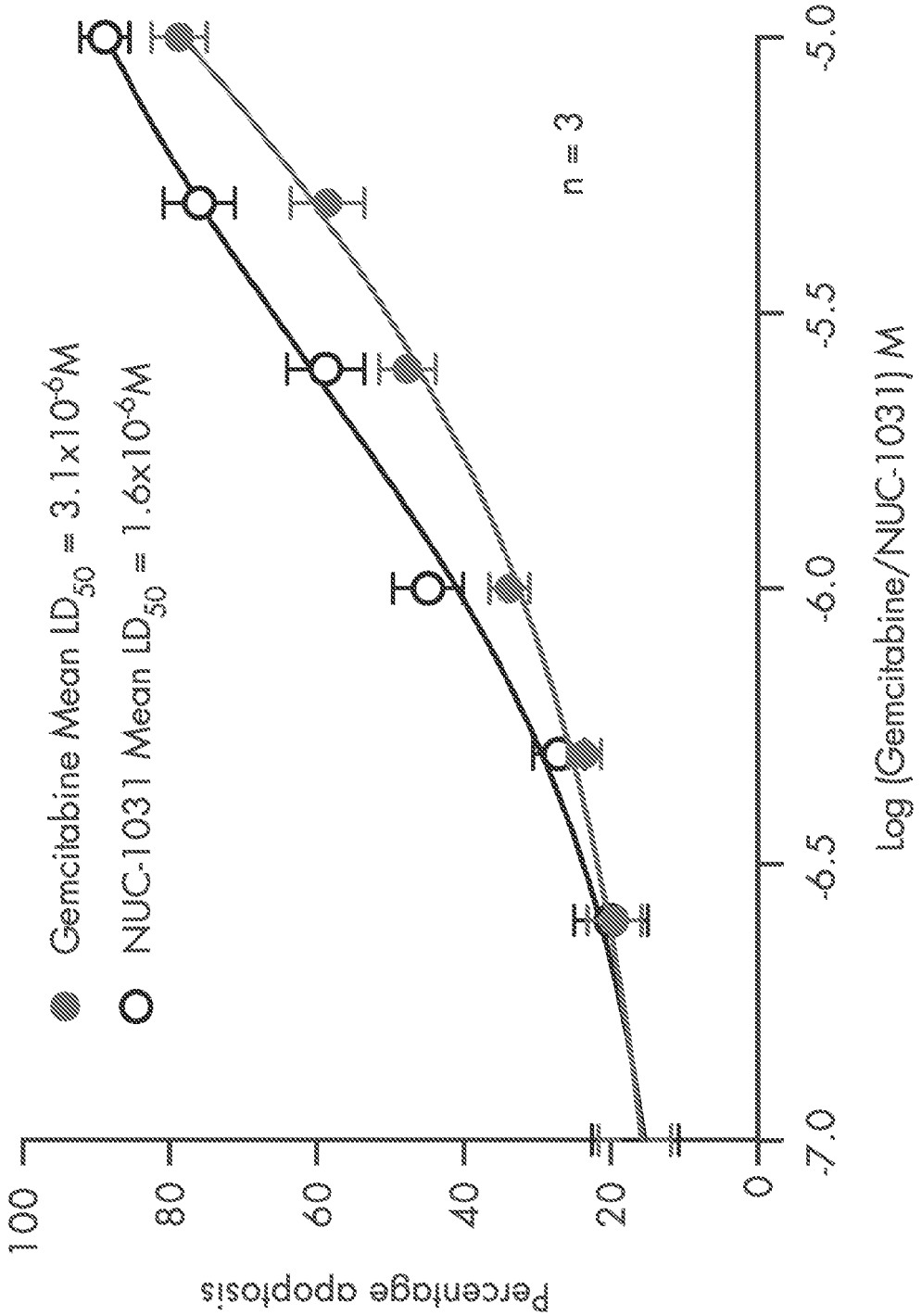

Gemcitabine Mean LD50 = 3.1x10-6M
NUC-1031 Mean LD50 = 1.6x10-6M
n = 3
Percentage apoptosis
100
80
60
40
20
0
-7.0
-6.5
-6.0
-5.5
-5.0
Log (Gemcitabine/NUC-1031) M

Fig. 2a

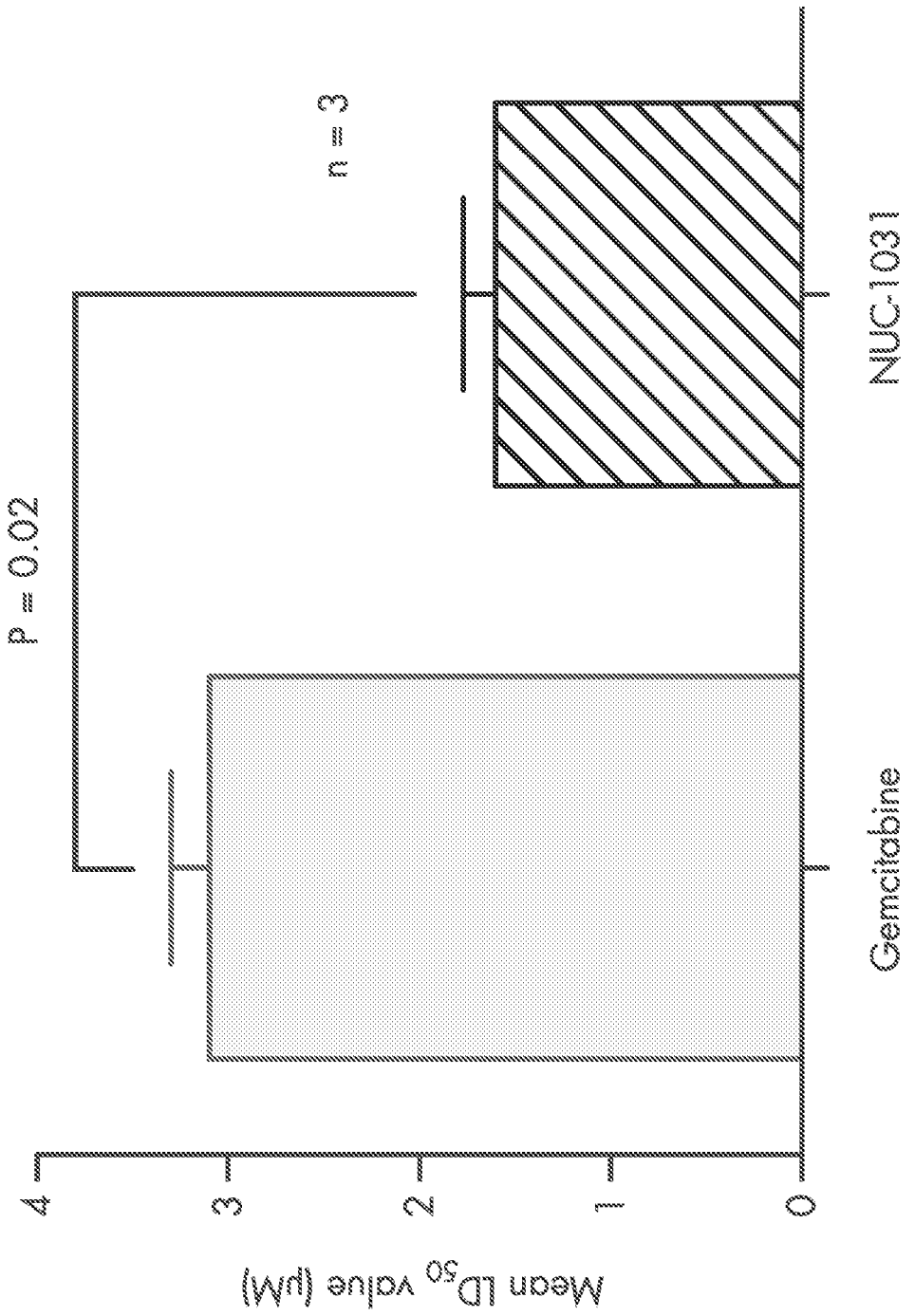


Fig. 2b

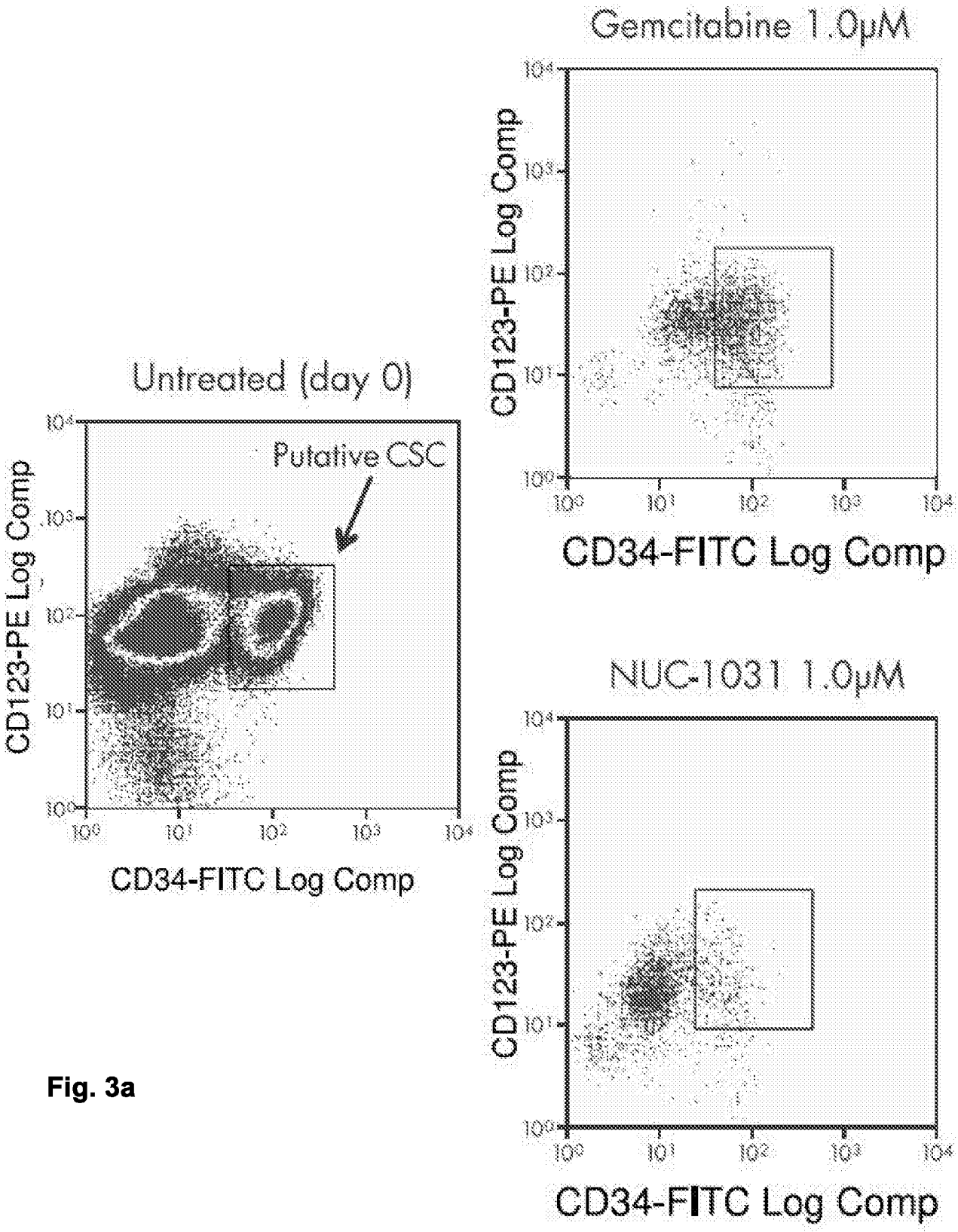

Gemcitabine 1.0μM
CD123-PE Log Comp
CD34-FITC Log Comp
Untreated (day 0)
Putative CSC
CD123-PE Log Comp
CD34-FITC Log Comp
NUC-1031 1.0μM
CD123-PE Log Comp
CD34-FITC Log Comp

Fig. 3a

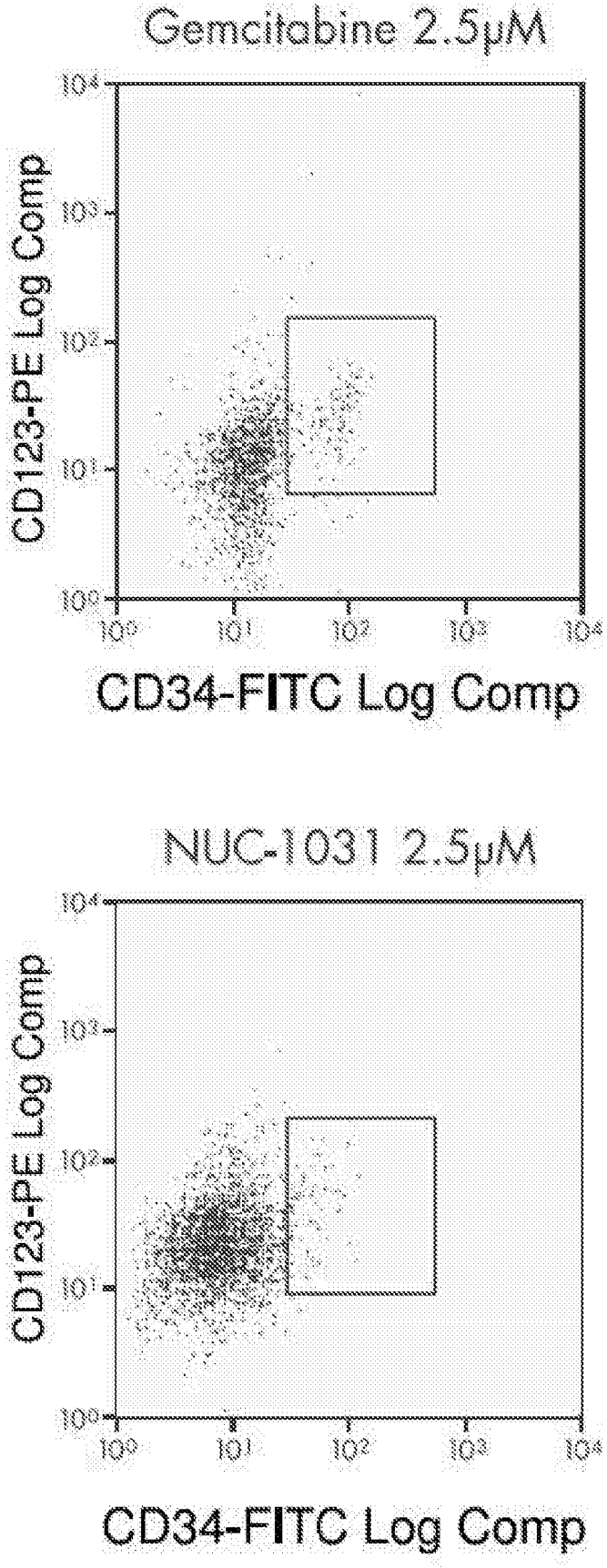

Gemcitabine 2.5μM
CD123-PE Log Comp
CD34-FITC Log Comp
NUC-1031 2.5μM
CD123-PE Log Comp
CD34-FITC Log Comp

Fig. 3b

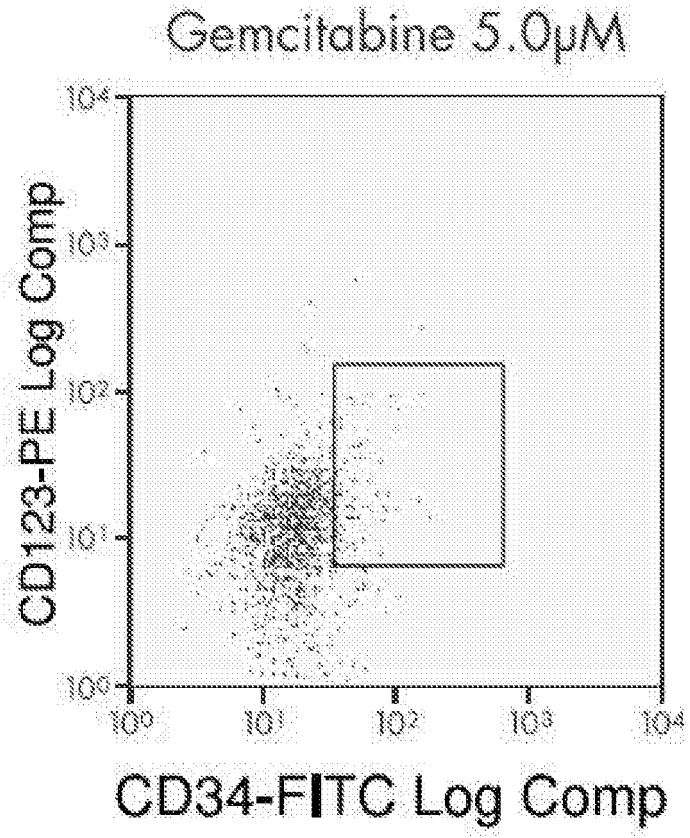

Gemcitabine 5.0μM
CD123-PE Log Comp
CD34-FITC Log Comp
NUC-1031 5.0μM
CD123-PE Log Comp
CD34-FITC Log Comp

Fig. 3c

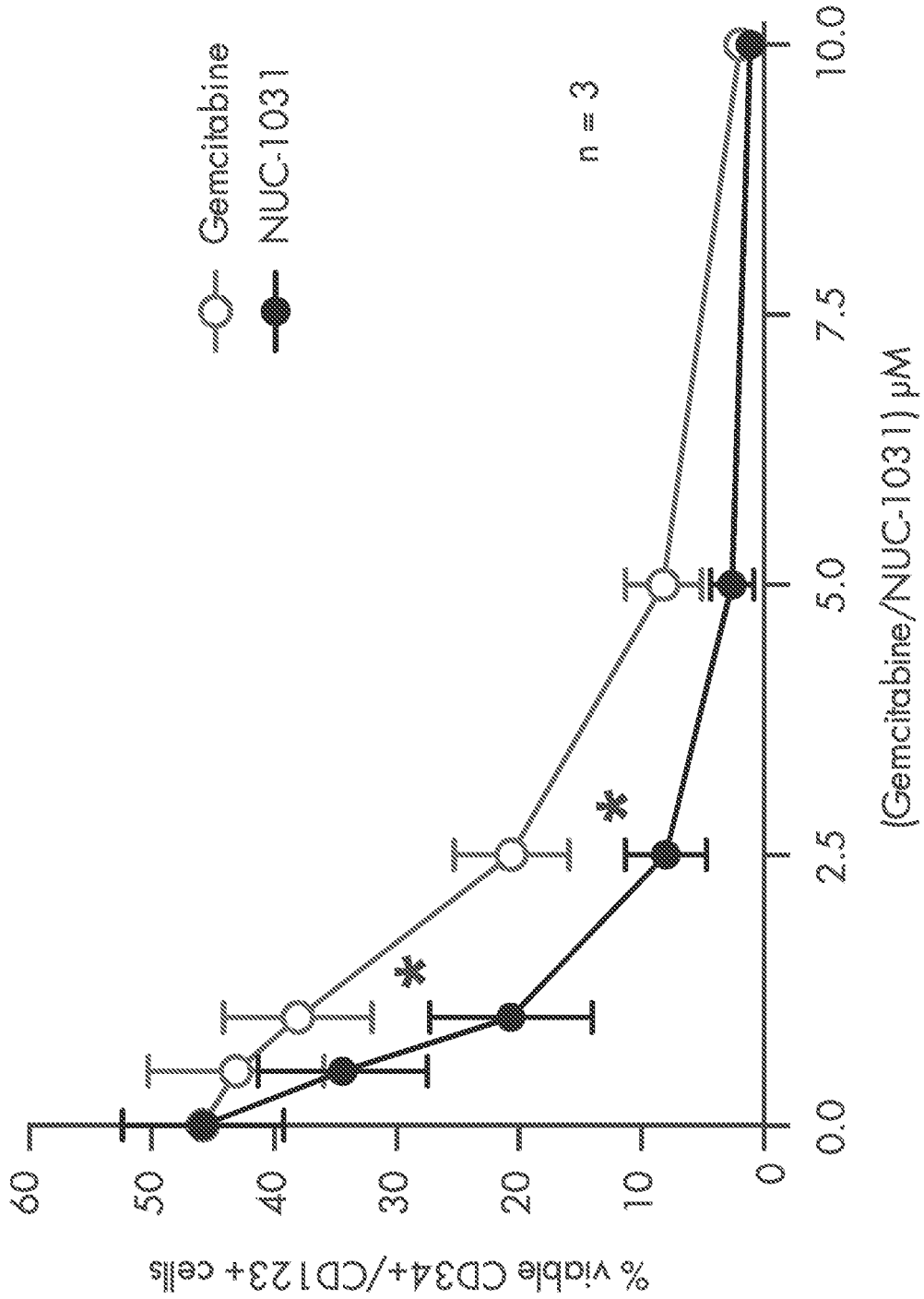
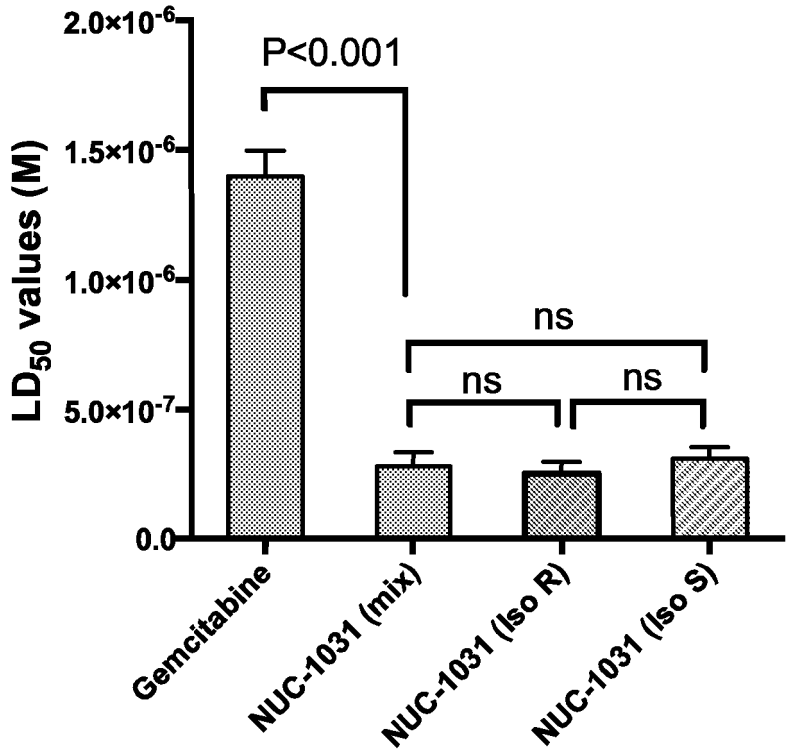

Gemcitabine
NUC-1031
n = 3
% viable CD34+/CD123+ cells
0
10
20
30
40
50
60
0.0
2.5
5.0
7.5
10.0
(Gemcitabine/NUC-1031) μM
*
*

Fig. 4

Fig. 5

[redacted]	[redacted]	[redacted]	[redacted]	LD_{50} (μM)
NUC-1031_mix	L-Ala	Bn	Ph	0.28
NUC-1031_(R*p*)	L-Ala	Bn	Ph	0.25
NUC-1031_(S*p*)	L-Ala	Bn	Ph	0.31
Gemcitabine	-	-	-	1.4



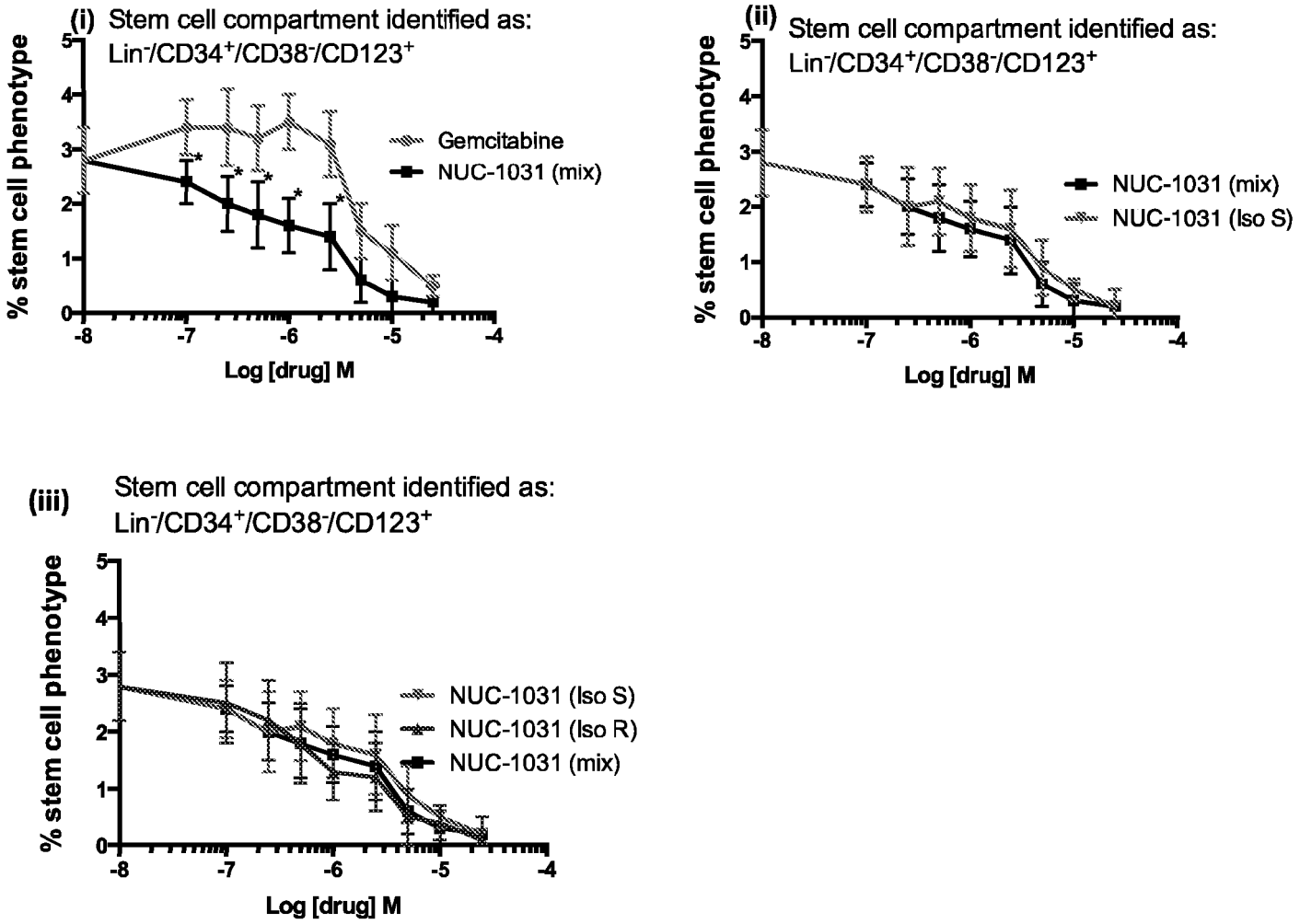

(i) Stem cell compartment identified as:
Lin-/CD34+/CD38-/CD123+
% stem cell phenotype
Log [drug] M
Gemcitabine
NUC-1031 (mix)
(ii) Stem cell compartment identified as:
Lin-/CD34+/CD38-/CD123+
% stem cell phenotype
Log [drug] M
NUC-1031 (mix)
NUC-1031 (Iso S)
(iii) Stem cell compartment identified as:
Lin-/CD34+/CD38-/CD123+
% stem cell phenotype
Log [drug] M
NUC-1031 (Iso S)
NUC-1031 (Iso R)
NUC-1031 (mix)

Fig. 6