

Supplementary Materials

Table S1. The gene sequence of the DLM.

Glu Ala Gly Glu Glu Cys Asp Cys Asp Ser Pro Ala Asn Pro Cys Cys Asp Ala Ala Thr
 5 10 15 20
 Cys Lys Leu Arg Pro Gly Ala Gln Cys Ala Glu Gly Leu Cys Cys Glu Gln Cys Arg Phe
 25 30 35 40
 Met Lys Glu Gly Thr Val Cys Arg Ile Ala Arg Gly Asp Asp Met Asp Asp Tyr Cys Asn
 45 50 55 60
 Gly Ile Ser Ala Gly Cys Pro Arg Asn Pro Phe His Ala Gly Gly Gly Cys Gly Gly
 65 70 75 80
 Gly Gly Cys Gly Gly Gly Cys Arg Val Gly Ile Gly Ala Val Leu Lys Val Leu Thr
 85 90 95 100
 Thr Gly Leu Pro Ala Leu Ile Ser Trp Ile Lys Arg Lys Arg Gln Gln
 105 110 115

Table S2. Inhibition of serial dilutions DLM to MCF-7 cells. The IC₅₀ of DLM to SMMC-7721 is 0.720 μM. The IC₅₀ of DLM to MCF-7 is 0.438 μM. The IC₅₀ of DLM to BT549 is 0.516 μM. The IC₅₀ of DLM to MDA-MB-231 is 0.565 μM. The IC₅₀ of DLM to SKOV-3 is 0.352 μM. The DLM shows low cytotoxicity to the MCF-10A, L-02 and HEK-293 cells. (a) Inhibition of serial dilutions DLM to SMMC-7721 cells; (b) Inhibition of serial dilutions DLM to MCF-7 cells; (c) Inhibition of serial dilutions DLM to BT549 cells; (d) Inhibition of serial dilutions DLM to MDA-MB-231 cells; (e) Inhibition of serial dilutions DLM to SKOV-3 cells; (f) Inhibition of serial dilutions DLM to MCF-10A cells; (g) Inhibition of serial dilutions DLM to L-02 cells; (h) Inhibition of serial dilutions DLM to HEK-293 cells.

Concentration (μg/mL)	OD ₄₉₀	Survival Rate (%)
0	0.8595 ± 0.0044	—
0.082	0.7670 ± 0.0057 #	89.24 ± 0.50
0.164	0.7210 ± 0.0032 #	83.89 ± 0.33
0.328	0.6450 ± 0.0008 #	75.05 ± 0.43
0.656	0.4470 ± 0.0047 #	47.99 ± 0.49
1.313	0.2730 ± 0.0043 #	31.76 ± 0.36
2.626	0.1720 ± 0.0036 #	20.01 ± 0.46

(a)

Concentration (μg/mL)	OD ₄₉₀	Survival Rate (%)
0	0.7620 ± 0.0128	—
0.041	0.7000 ± 0.0042 #	91.88 ± 1.53
0.082	0.6850 ± 0.0047 #	89.92 ± 1.92
0.164	0.6018 ± 0.0089 #	79.98 ± 0.89
0.328	0.4326 ± 0.0100 #	56.70 ± 1.28
0.656	0.3058 ± 0.0050 #	40.14 ± 0.63
1.313	0.1498 ± 0.0059 #	19.65 ± 0.65

(b)

Table S1. *Cont.*

Concentration ($\mu\text{g/mL}$)	OD₄₉₀	Survival Rate (%)
0	0.9731 \pm 0.0043	—
0.041	0.9044 \pm 0.0083 [#]	92.94 \pm 0.69
0.082	0.8313 \pm 0.0115 [#]	85.43 \pm 1.24
0.164	0.7842 \pm 0.0189 [#]	80.59 \pm 0.89
0.328	0.6172 \pm 0.0142 [#]	63.43 \pm 1.43
0.656	0.4597 \pm 0.0238 [#]	47.24 \pm 0.97
1.313	0.2265 \pm 0.0082 [#]	23.28 \pm 0.82

(c)

Concentration ($\mu\text{g/mL}$)	OD₄₉₀	Survival Rate (%)
0	1.2553 \pm 0.0152	—
0.041	1.1681 \pm 0.0291 [#]	93.05 \pm 0.32
0.082	1.0567 \pm 0.0202 [#]	84.18 \pm 0.91
0.164	0.9963 \pm 0.0342 [#]	79.37 \pm 0.56
0.328	0.8688 \pm 0.0323 [#]	69.21 \pm 1.01
0.656	0.6165 \pm 0.0717 [#]	45.11 \pm 0.75
1.313	0.3470 \pm 0.0136 [#]	27.64 \pm 0.93

(d)

Concentration ($\mu\text{g/mL}$)	OD₄₉₀	Survival Rate (%)
0	0.6553 \pm 0.0045	—
0.041	0.5653 \pm 0.0044 [#]	86.27 \pm 1.15
0.082	0.5300 \pm 0.0018 [#]	80.89 \pm 0.73
0.164	0.5102 \pm 0.0090 [#]	77.87 \pm 1.86
0.328	0.4260 \pm 0.0050 [#]	65.02 \pm 1.06
0.656	0.2680 \pm 0.0028 [#]	40.90 \pm 0.61
1.313	0.0700 \pm 0.0082 [#]	10.68 \pm 1.21

(e)

Concentration ($\mu\text{g/mL}$)	OD₄₉₀	Survival Rate (%)
0	0.8367 \pm 0.0035	—
0.082	0.7856 \pm 0.0042 [#]	93.89 \pm 0.28
0.164	0.7776 \pm 0.0035 [#]	92.94 \pm 0.41
0.328	0.7621 \pm 0.0059 [#]	91.08 \pm 0.36
0.656	0.74140 \pm 0.0030 [#]	88.61 \pm 0.45
1.313	0.7183 \pm 0.0042 [#]	85.85 \pm 0.38
2.626	0.6963 \pm 0.0059 [#]	83.22 \pm 0.31

(f)

Concentration ($\mu\text{g/mL}$)	OD₄₉₀	Survival Rate (%)
0	1.1767 \pm 0.0353	—
0.082	1.1382 \pm 0.0167 [#]	96.73 \pm 0.65
0.164	1.1215 \pm 0.0332 [#]	95.31 \pm 0.71
0.328	1.0987 \pm 0.0476 [#]	93.37 \pm 0.69
0.656	1.0862 \pm 0.0892 [#]	92.31 \pm 0.85
1.313	1.0642 \pm 0.0754 [#]	90.44 \pm 1.04
2.626	1.0453 \pm 0.0435 [#]	88.83 \pm 1.24

(g)

Table S1. *Cont.*

Concentration ($\mu\text{g/mL}$)	OD₄₉₀	Survival Rate (%)
0	0.8367 \pm 0.0035	—
0.082	0.7856 \pm 0.0042 [#]	93.89 \pm 0.28
0.164	0.7776 \pm 0.0035 [#]	92.94 \pm 0.41
0.328	0.7621 \pm 0.0059 [#]	91.08 \pm 0.36
0.656	0.74140 \pm 0.0030 [#]	88.61 \pm 0.45
1.313	0.7183 \pm 0.0042 [#]	85.85 \pm 0.38
2.626	0.6963 \pm 0.0059 [#]	83.22 \pm 0.31

(h)

Compared with the control group, $p < 0.001$.