

Complexing Methylene Blue with Phosphorus Dendrimers to Increase Photodynamic Activity

Monika Dabrzalska, Anna Janaszewska, Maria Zablocka, Serge Mignani,
Jean Pierre Majoral and Barbara Klajnert-Maculewicz

Table S1. Viability (% of control) of ASZ cell line after the treatment with MB and MB-1an without irradiation (dark toxicity).

| MB [μ M] | MB | MB-1an |
|---------------|------------------|-------------------|
| 1.0 | 87.62 \pm 5.30 | 79.33 \pm 14.14 |
| 2.5 | 82.88 \pm 6.50 | 79.34 \pm 8.51 |
| 5.0 | 82.39 \pm 3.21 | 78.01 \pm 6.13 |
| 10.0 | 68.14 \pm 8.56 | 68.31 \pm 13.07 |

Table S2. Viability (% of control) of BSZ cell line after the treatment with MB and MB-1an without irradiation (dark toxicity).

| MB [μ M] | MB | MB-1an |
|---------------|------------------|-------------------|
| 1.0 | 86.85 \pm 0.29 | 92.36 \pm 10.24 |
| 2.5 | 82.83 \pm 0.85 | 94.55 \pm 8.56 |
| 5.0 | 74.49 \pm 1.57 | 87.27 \pm 4.74 |
| 10.0 | 54.87 \pm 5.19 | 62.31 \pm 11.62 |

Table S3. Viability (% of control) of CSZ cell line after the treatment with MB and MB-1an without irradiation (dark toxicity).

| MB [μ M] | MB | MB-1an |
|---------------|-------------------|-------------------|
| 1.0 | 93.03 \pm 3.83 | 92.82 \pm 7.78 |
| 2.5 | 84.47 \pm 7.28 | 87.61 \pm 8.39 |
| 5.0 | 81.79 \pm 10.30 | 74.17 \pm 11.05 |
| 10.0 | 74.19 \pm 10.98 | 61.74 \pm 4.36 |

Table S4. Viability (% of control) of ASZ, BSZ and CSZ cell lines after the treatment with 1an without irradiation.

| 1an [μ M] | ASZ | BSZ | CSZ |
|----------------|------------------|-------------------|------------------|
| 0.2 | 88.84 \pm 5.40 | 88.88 \pm 12.41 | 90.58 \pm 3.47 |
| 0.5 | 88.36 \pm 5.85 | 96.04 \pm 11.33 | 84.74 \pm 2.45 |
| 1.0 | 90.85 \pm 8.92 | 93.00 \pm 2.65 | 80.90 \pm 2.21 |
| 2.0 | 78.58 \pm 3.66 | 73.77 \pm 14.22 | 65.55 \pm 4.66 |

Table S5. Viability (% of control) of ASZ cell line after the treatment with different concentrations of MB and MB-1an after the 30 min irradiation.

| MB [μ M] | MB | MB-1an |
|---------------|------------------|------------------|
| 1.0 | 83.4 \pm 2.04 | 79.22 \pm 3.21 |
| 2.5 | 83.71 \pm 1.13 | 70.91 \pm 4.49 |
| 5.0 | 80.55 \pm 6.91 | 20.21 \pm 5.07 |
| 10.0 | 59.55 \pm 1.57 | 11.49 \pm 5.50 |

Table S6. Viability (% of control) of BSZ cell line after the treatment with different concentrations of MB and MB-1an after the 30 min irradiation.

| MB [μ M] | MB | MB-1an |
|---------------|------------------|------------------|
| 1.0 | 90.06 \pm 4.57 | 79.29 \pm 6.06 |
| 2.5 | 76.17 \pm 2.24 | 51.74 \pm 5.33 |
| 5.0 | 51.35 \pm 4.13 | 17.41 \pm 3.71 |
| 10.0 | 29.37 \pm 2.31 | 8.68 \pm 3.35 |

Table S7. Viability (% of control) of CSZ cell line after the treatment with different concentrations of MB and MB-1an after the 30 min irradiation.

| MB [μ M] | MB | MB-1an |
|---------------|-------------------|-------------------|
| 1.0 | 86.84 \pm 11.15 | 80.65 \pm 6.17 |
| 2.5 | 83.48 \pm 8.86 | 69.55 \pm 6.79 |
| 5.0 | 65.68 \pm 4.25 | 24.03 \pm 12.83 |
| 10.0 | 54.72 \pm 5.64 | 9.95 \pm 5.57 |