

Supplementary Material

The effect of light irradiation on nitro-ruthenium porphyrin complex in the induced death of lung cancer cells in two- and three-dimensional cultures: Insights into the effect of nitric oxide

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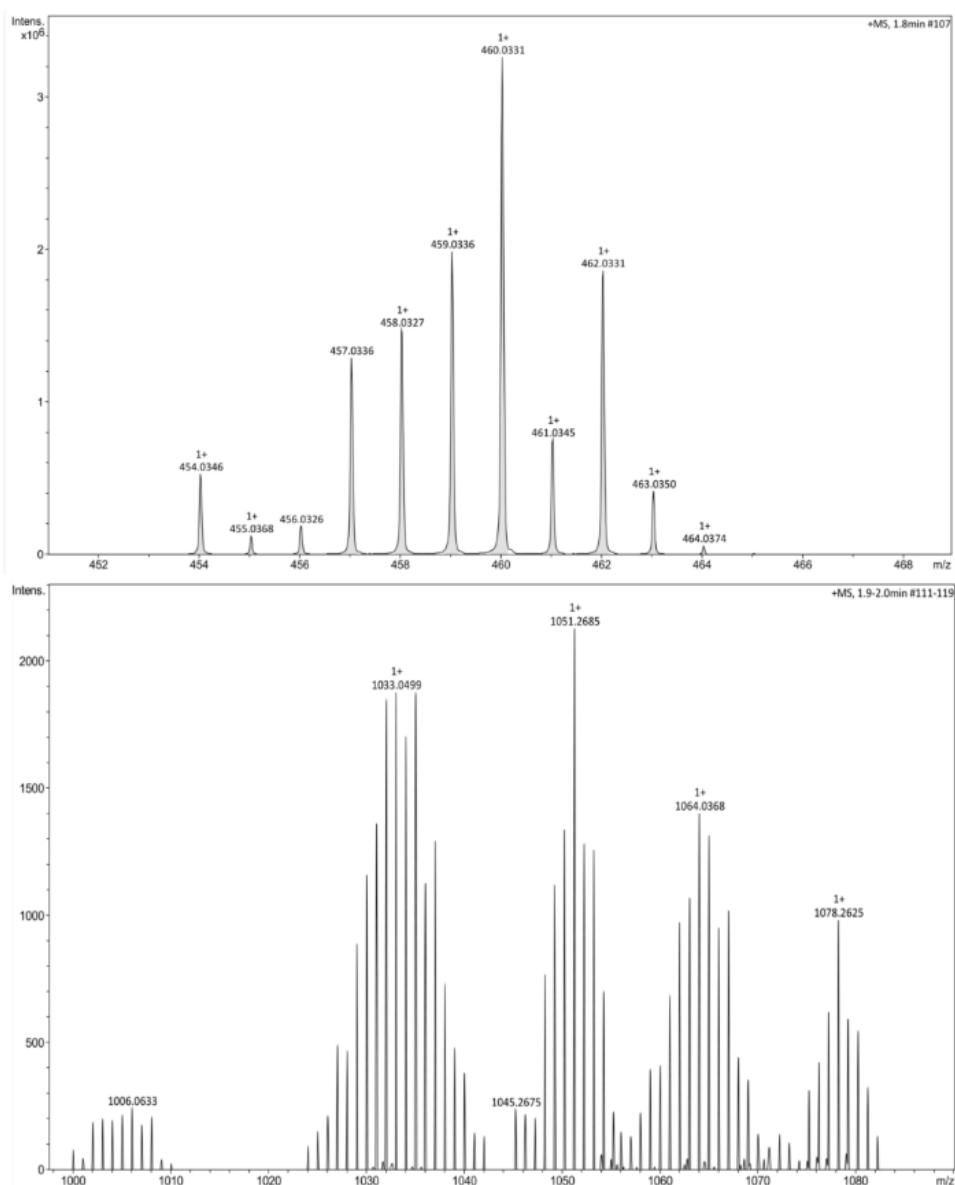


Figure S1 – Mass spectra obtained by ESI-TOF revealing the isotopic profiles for the following identified fragments MS (ESI): $m/z = 460.03$ $[\text{Ru}(\text{NO}_2)(\text{bpy})_2.\text{H}^+]$, 1078.26 $\{\text{TPyP}-[\text{Ru}(\text{NO}_2)(\text{bpy})_2.\text{H}^+]\}$, 1064.03 $\{\text{TPyP}-[\text{Ru}(\text{NO})(\text{bpy})_2.\text{H}^+]\}$, 1051.26 $\{\text{TPyP}-[\text{Ru}(\text{HO})(\text{bpy})_2.\text{H}^+]\}$, 1033.04 $\{\text{TPyP}-[\text{Ru}(\text{bpy})_2.2\text{H}^+]\}$.

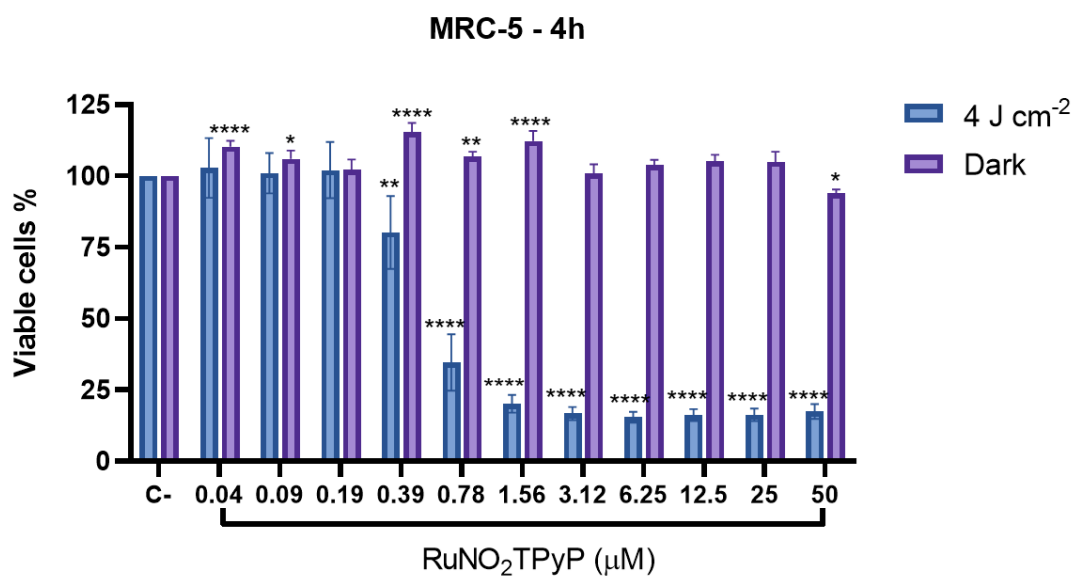


Figure S2 – Effects of RuNO₂TPyP complex on the viability of MRC-5 cells. Percentage of viable MRC-5 cells after 4 h treatment with complex RuNO₂TPyP in the presence (415 nm, dose 4 J cm⁻², represented in light blue) and absence of irradiation (dark, represented in light purple). The percentage results were compared with the negative control (C-). (*p<0.05, **p<0.01, ***p<0.001 and ****p<0.0001).