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Electronic Supporting Information

for

SYNTHESIS OF MONOFUNCTIONAL PLATINUM(IV) CARBOXYLATE PRECURSORS FOR USE IN PT(IV)-PEPTIDE BIOCONJUGATES

by

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	Characterisation of platinum(II) complexes Characterisation of platinum(IV) complexes Characterisation of cell penetrating peptides Characterisation of platinum(IV)-peptide bioconjugates



Figure S1. ¹H NMR spectrum of dicarboxylate platinum(II) complex (2a)



Figure S2. ESI-MS spectrum of dicarboxylate platinum(II) complex (2a)



Figure S3. FT-IR spectrum of dicarboxylate platinum(II) complex (2a)



Figure S4. HPLC chromatogram at 214 nm of dicarboxylate platinum(II) complex (2a)



Figure S5. ¹⁹⁵Pt NMR spectrum of dicarboxylate platinum(II) complex (2a)



Figure S6. FT-IR spectrum of dicarboxylate platinum(IV) complex (3a)



Figure S7. HPLC chromatogram at 214 nm of dicarboxylate platinum(IV) complex (3a)

EXPERIMENTAL [M-H] 566.6 567.6 565.6 568.6 564.6 [M-H]⁻ 150 555 580 575 560 565 570 intensity m/z 100 [M-succ] SIMULATED [M-H] 50 567.0 568.0 0 566.0 450 550 500 569.0 565.0 m/z 570.0 571.0 565 575 560 570 580 555 585 m/z

Figure S8. ESI-MS spectrum of dicarboxylate platinum(IV) complex (3a)



Figure S9. ¹⁹⁵Pt NMR spectrum of dicarboxylate platinum(II) complex (2a)





Figure S10. Structure of polyarginine peptide (P1)



Figure S11. ESI-MS spectrum of polyarginine peptide (P1)



Figure S12. HPLC chromatogram at 214 nm of polyarginine peptide (P1)





Figure S13. Structure of polyarginine-polyglutamic peptide (P2)



Figure S14. ESI-MS spectrum of polyarginine-polyglutamic peptide (P2)



Figure S15. HPLC chromatogram at 214 nm of polyarginine-polyglutamic peptide (P2)



Figure S16. HPLC chromatogram at 214 nm of platinum(IV)-peptide bioconjugate (4a)



Figure S17. MALDI spectrum of platinum(IV)-peptide bioconjugate (4a)



Figure S18. The dose-response curve for the determination of the IC₅₀ value of **4a** on HepG2 cells.