Supporting Information

for *Macromol. Biosci.,* DOI: 10.1002/mabi.201600035

Macromolecular Pt(IV) Prodrugs from Poly(organo)phosphazenes

Helena Henke, Kushtrim Kryeziu, Jelena Banfi´c, Sarah Theiner, Wilfried Körner, Oliver Brüggemann, Walter Berger, Bernhard K. Keppler, Petra Heffeter,* Ian Teasdale*

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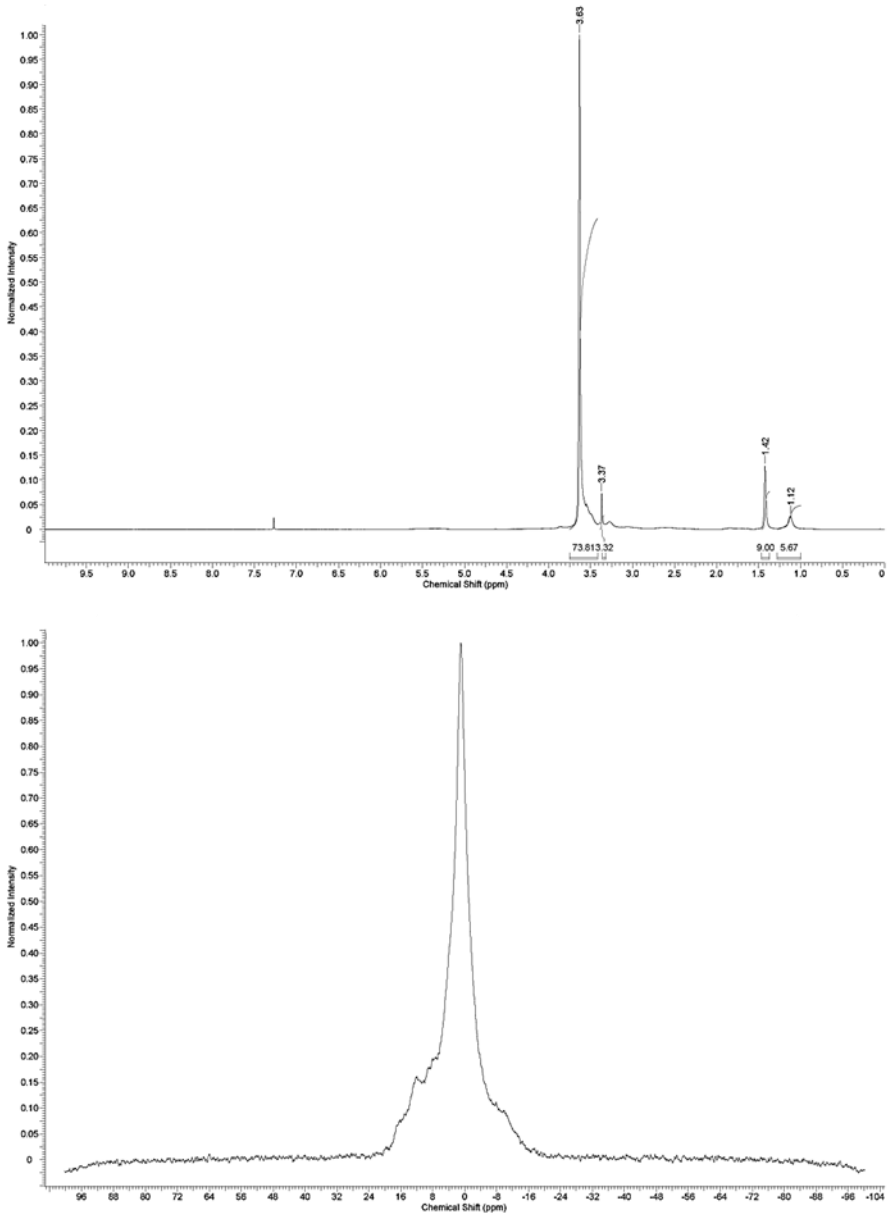


Figure SI-1: ^{1}H (top) and $\{^{1}H\}^{31}P$ NMR (bottom) of polymer **P-a** in $CDCl_3$.

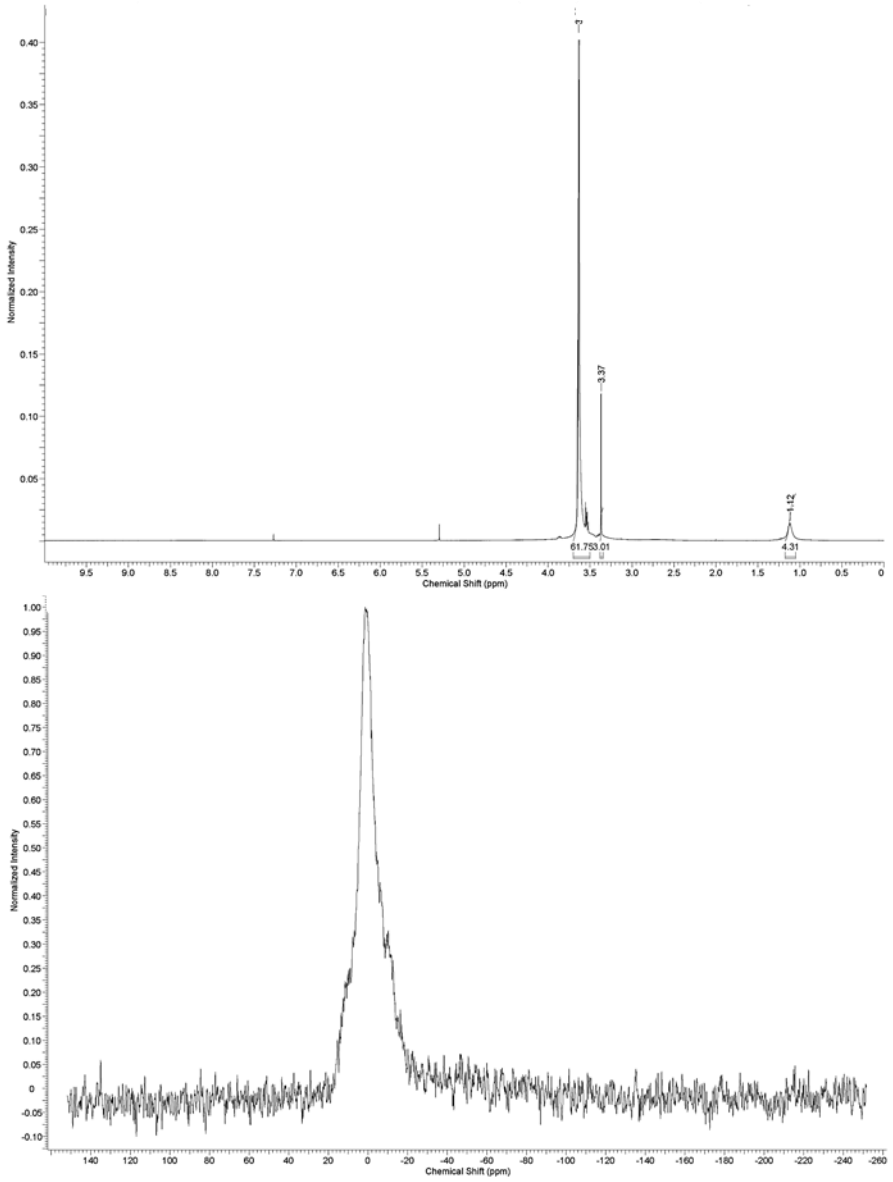
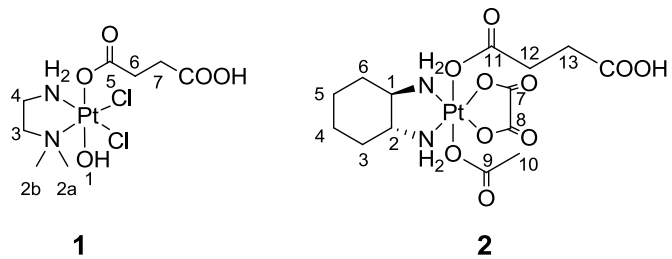


Figure SI-2: ^{1}H (top) and $\{^{1}H\}^{31}P$ NMR (bottom) of boc-deprotected polymer **P-b** in $CDCl_3$.



1 **2**

Figure SI-3: Numbered Pt(IV) complexes **1** and **2**.

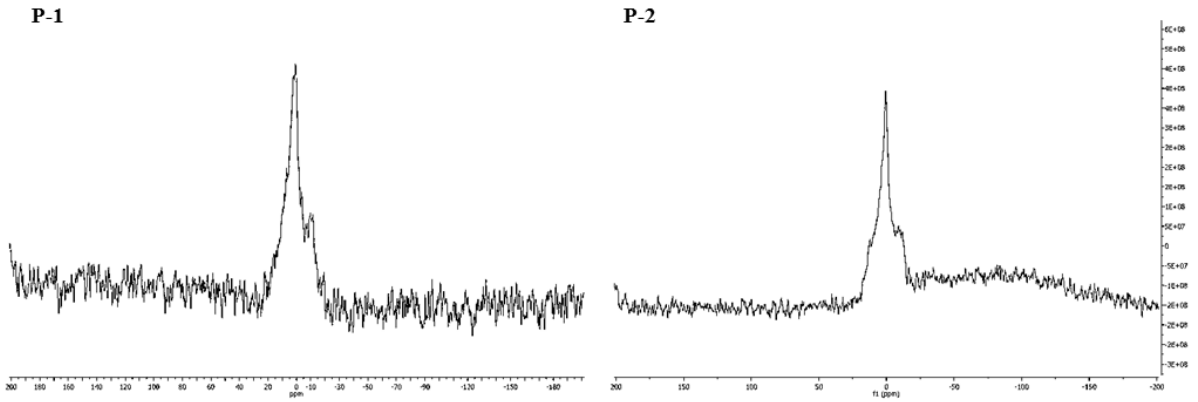


Figure SI-4: $\{^{1}H\}^{31}P$ NMR polymer conjugates **P-1** (left) and **P-2** (right) in DMSO-d_6.

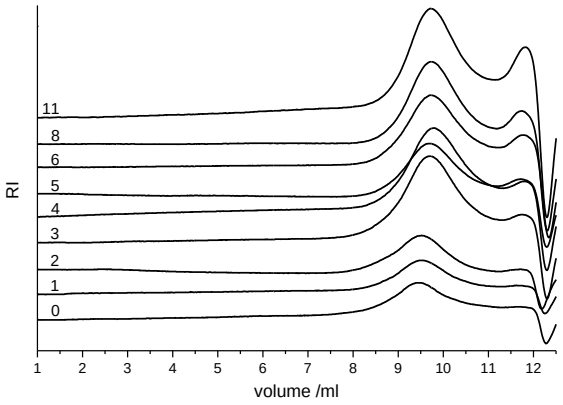


Figure SI-5: Degradation study of poly(organo)phosphazene with free amino groups. GPC measurements of aliquots of **P-c** after incubation at pH 7.4 and 37 °C over the course of 11 weeks showed minimal degradation.

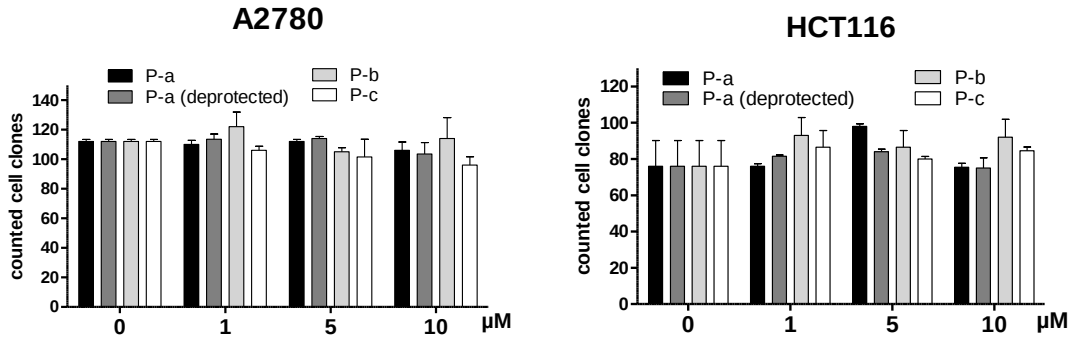


Figure SI-6: Viability of cancer cells after treatment with unloaded polymers. A2780 ovarian cancer cells and HCT116 colorectal carcinoma cells were treated with **P-a**, deprotected **P-a**, **P-b** and **P-c**. Clonogenic survival was determined after exposure to the indicated drug concentrations for 7 days. Cell colonies were visualized by crystal violet staining and counted.