SUPPLEMENTARY ELECTRONIC INFORMATION for
Probing the Interaction between Cisplatin and the Therapeutic Monoclonal Antibody Trastuzumab

Alessia Lasorsa, Maurizio Losacco, Rosa Maria Iacobazzi, Letizia Porcelli, Amalia Azzariti, Giovanni Natile, and Fabio Arnesano

aDepartment of Chemistry, University of Bari “Aldo Moro”, via E. Orabona 4 70125 Bari, Italy.
bDepartment of Pharmacy-Drug Sciences, University of Bari “Aldo Moro”, via E. Orabona 4 70125 Bari, Italy
cIstituto tumori IRCCS Giovanni Paolo II, viale O. Flacco 65 70124 Bari, Italy

Contents

Fig. S1 SEC analysis of 100 µM trastuzumab in ammonium acetate 20 mM at pH 6 (black contour), 100 µM trastuzumab after 12 h digestion with papain at 25 °C (red contour) and 100 µM trastuzumab after 2 h digestion with papain at 37 °C (blue contour).

Fig. S2 ESI-MS spectrum from m/z 1000 to 2800 of Fc fragment comprising multiple charged states from +44 to +20 (A). Close-up of A across the range from m/z 1520 to 1680, 4 distinctive peaks can be seen for each charged state.

Fig. S3 ESI-MS spectrum of Long Fab from m/z 1000 to 2500 (A). Close-up of A across the range from m/z 1380 to 1520 (B). ESI-MS spectrum of Long and Short Fab in 1:1 ratio from m/z 1000 to 2500 (C). Close-up of C across the range from m/z 1380 to 1520 (D).

Fig. S4 ESI-MS spectra from m/z 1420 to 1520 of Long Fab incubated with cisplatin (1:20 ratio) for 12 h at 37 °C. Peaks of Long Fab-Pt(NH₃)₂Cl⁺ adduct are shown in red.
Fig. S1 SEC analysis of 100 µM trastuzumab in ammonium acetate 20 mM at pH 6 (black contour), 100 µM trastuzumab after 12 h digestion with papain at 25 °C (red contour) and 100 µM trastuzumab after 2 h digestion with papain at 37 °C (blue contour).

Fig. S2 ESI-MS spectrum from m/z 1000 to 2800 of Fc fragment comprising multiple charged states from +44 to +20 (A). Close-up of A across the range from m/z 1520 to 1680, 4 distinctive peaks can be seen for each charged state.
Fig. S3 Normalized ESI-MS spectrum of Long Fab from m/z 1000 to 2500 (A). Close-up of A across the range from m/z 1380 to 1520 (B). Normalized ESI-MS spectrum of Long and Short Fab in 1:1 ratio from m/z 1000 to 2500 (C). Close-up of C across the range from m/z 1380 to 1520 (D).

Fig. S4 ESI-MS spectra from m/z 1420 to 1520 of Long Fab incubated with cisplatin (1:20 ratio) for 12 h at 37 °C. Peaks of Long Fab-Pt(NH$_3$)$_2$Cl$^+$ adduct are shown in red.