# Supplementary to:

# Platinum(II) O,S complexes inhibit the aggregation of amyloid model systems

The occurrence of a Cys residue in the $NPM1_{264-277}$ sequence leads to the partial formation of a dimer through a disulphide bridge after 24 h. Also dimeric species gives rise to adducts with Pt(II) complexes.

**Table S1.** The results of the ESI-MS analysis of $NPM1_{264-277}$ in the presence of **1**. The experimental and theoretical monoisotopic mass values and the corresponding ion species are reported. The species reported without the errors occur as double charged only.

| Experimental monoisotopic mass (Da) | Theoretical monoisotopic mass (Da) | Pt(II)-Peptide Complexes |
|---|---|---|
| 2607.65±0.44 | 2611.78 | $NPM1_{264-277}$+ 2 x ( **1** ) - 2Cl - 2DMSO |
| 3107.16±1.73 | 3110.30 | $NPM1_{264-277}$+ 3 x ( **1** ) - 3Cl - 2DMSO |
| 3141.08 | 3145.75 | $NPM1_{264-277}$+ 3 x ( **1** ) - 2Cl - 2DMSO |
| 3182.26±1.52 | 3188.43 | $NPM1_{264-277}$+ 3 x ( **1** ) - 3Cl - 1DMSO |
| 3527.22±1.89 | 3530.69 | $NPM1_{264-277}$+ 4 x ( **1** ) - 4Cl - 3DMSO |
| 3560.44±0.56 | 3566.14 | $NPM1_{264-277}$+ 4 x ( **1** ) - 3Cl - 3DMSO |
| 3600.87±0.99 | 3608.82 | $NPM1_{264-277}$+ 4 x ( **1** ) - 4Cl - 2DMSO |
| 3639.7±1.74 | 3644.27 | $NPM1_{264-277}$+ 4 x ( **1** ) - 3Cl - 2DMSO |
| 3679.33±0.88 | 3679.72 | $NPM1_{264-277}$+ 4 x ( **1** ) - 2Cl - 2DMSO |
| 5029.65±1.80 | 5028.33 | $NPM1_{264-277}$ dimer + 3 x ( **1** ) - 1Cl - 1DMSO |
| 5450.99±2.22 | 5448.72 | $NPM1_{264-277}$ dimer + 4 x ( **1** ) - 2Cl - 2DMSO |
| 5529.12±1.89 | 5526.85 | $NPM1_{264-277}$ dimer + 4 x ( **1** ) - 2Cl - 1DMSO |

**Table S2.** The results of the ESI-MS analysis of $NPM1_{264-277}$ in the presence of **3**. The experimental and theoretical monoisotopic mass values and the corresponding ion species are reported. The species reported without the errors occur as double charged only.

| Experimental monoisotopic mass (Da) | Theoretical monoisotopic mass (Da) | Pt(II)-Peptide Complexes |
|---|---|---|
| 2604.11 | 2607.84 | $NPM1_{264-277}$+2 x( **3** ) -2 Cl - 2 DMSO |
| 3020.11±0.01 | 3026.26 | $NPM1_{264-277}$+3 x ( **3** ) - 3 Cl - 3 DMSO |
| 3056.10 | 3061.71 | $NPM1_{264-277}$+ 3 x ( **3** ) -2 Cl - 3 DMSO |
| 3098.63±0.55 | 3104.35 | $NPM1_{264-277}$+ 3 x ( **3** ) - 3 Cl - 3DMSO |
| 3134.09 | 3139.84 | $NPM1_{264-277}$+ 3 x ( **3** ) - 2 Cl - 2 DMSO |
| 3438.05±0.05 | 3444.68 | $NPM1_{264-277}$+ 4 x ( **3** ) - 4 Cl - 4 DMSO |
| 3474.05±0.04 | 3480.07 | $NPM1_{264-277}$+ 4 x ( **3** ) - 3 Cl - 4 DMSO |
| 3515.08±0.07 | 3522.81 | $NPM1_{264-277}$+ 4 x ( **3** ) - 4 Cl - 3 DMSO |
| 3551.57±0.41 | 3558.26 | $NPM1_{264-277}$+ 4 x ( **3** ) - 3 Cl - 3 DMSO |