

**Supplementary Figure 1.** LC-MS mass spectra (FTMS + pESI, positive ion mode) of the L-ASNase-treated Gal264-CII259-273. The chromatogram represents the reaction mixture after enzymatic reaction. The zoomed fragment represents the two peptides: non-modified (first peak on the chromatogram) and modified (second peak on the chromatogram). Below each peak is given a high resolution MS cluster of the corresponding chromatographic peak. The figure shows the importance of chromatographic separation. If the peaks are not separated, MS spectra are superimposed and cannot provide useful information