

### Supporting Information

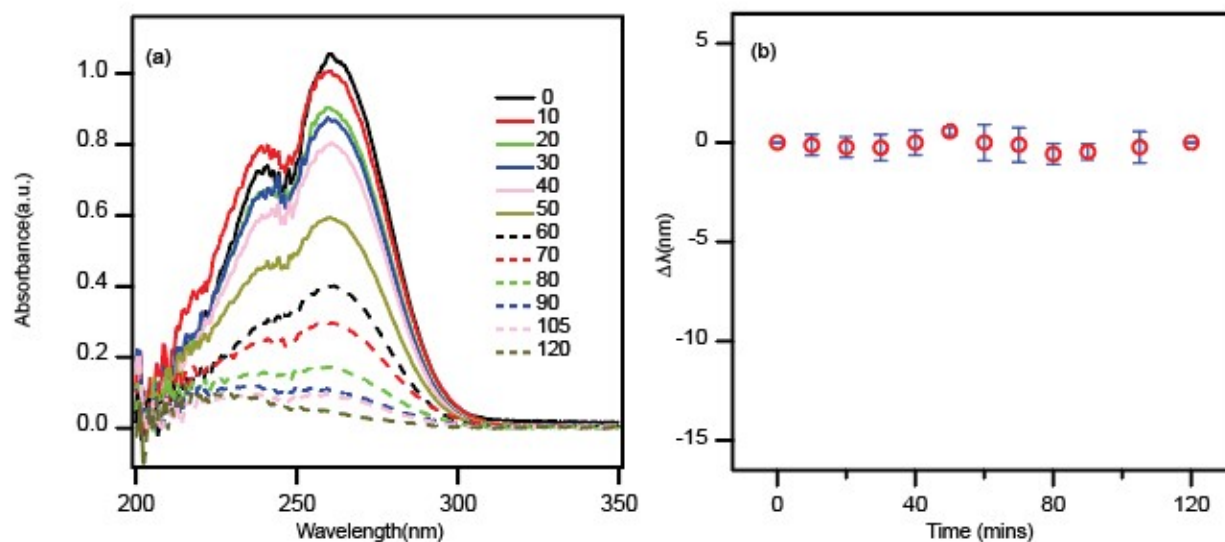
## Oxidative stress induced conformational changes of Human Serum Albumin

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### S1. UV-Vis spectrum of CuCl<sub>2</sub> & Ascorbic acid

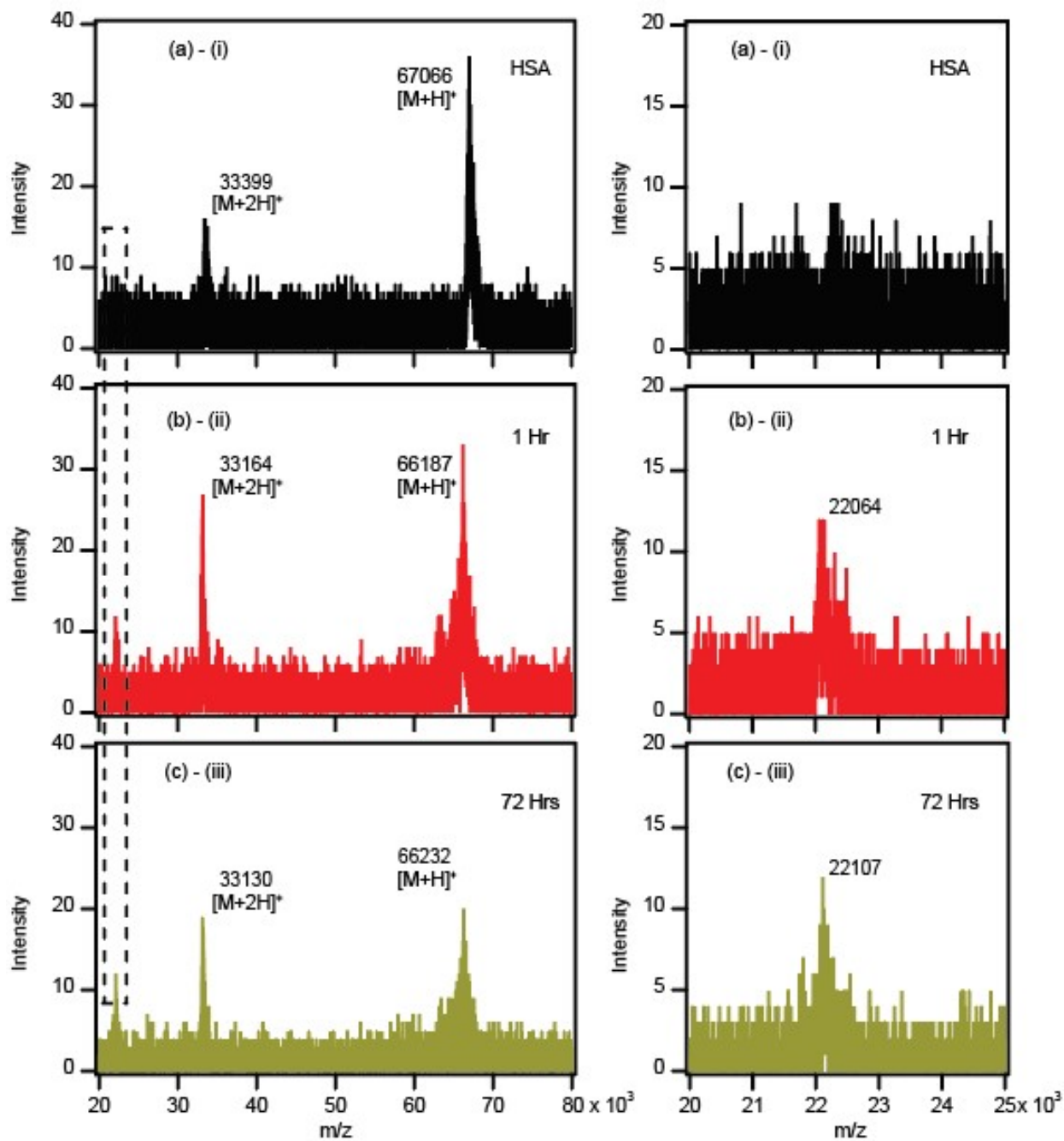


**Fig S1.** (a) UV-vis spectrum of CuCl<sub>2</sub> & Ascorbic acid at various time (in min); (b) Shift in the absorbance maxima in case of CuCl<sub>2</sub> & Ascorbic acid (mean  $\pm$  sd of three independent scans).

Ascorbic acid exhibits an absorption maximum at around  $\sim$ 265 nm (Fig S1. panel a).

The intensity decreases with time, but the peak position remains constant (Fig S1. panel b).

## S2. Matrix-Assisted Laser Desorption Ionization – Time of Flight (MALDI-TOF)



**Fig S2.** MALDI-TOF mass distribution of (a) bare HSA; (b) 1Hr oxidized sample; (c) 72Hr oxidized sample; subpanels are zoomed out of the dashed area.

MALDI-TOF mass distribution of bare HSA (Fig S2. panel a) and corresponding oxidized cases (Fig S2. 1 Hr (panel b) & 72 Hrs (panel c)). The  $m/z$  value changes with oxidation with an appearance of a prominent peak around  $\sim 22000$   $m/z$  with oxidation.