

**Supplemental Table 3:**

Concentration of natural ( $^{nat}\text{Zn}$ ) and “exogenous” zinc ( $^{68}\text{Zn}$ ) found in MTs, in cultured HCEsv cells, under control conditions (no treatment), and after exposure to either: i)  $^{68}\text{ZnSO}_4$  (100 $\mu\text{M}$ ) alone; ii) IL1 $\alpha$  (100 U/ml), or iii) a combination of  $^{68}\text{ZnSO}_4$  (100 $\mu\text{M}$ ) and IL1 $\alpha$  (100 U/ml), during 24h. The concentration of total zinc (Zn) reflects the sum of concentrations of zinc ( $^{nat}\text{Zn} + ^{68}\text{Zn}$ ) bound to MTs, distinct to MTs. The concentration of zinc in MTs, was determined by IPD-HLPC-ICP-MS in the soluble protein fraction of HCEsv cell extracts, after Anionic Exchange chromatography (AEC) separation.

<b>Treatment</b>	<b>Zinc –binding specie</b>	<b><math>^{nat}\text{Zn}</math> (<math>\mu\text{M}</math>)</b>	<b><math>^{68}\text{Zn}</math> (<math>\mu\text{M}</math>)</b>	<b>Total Zn (<math>^{nat}\text{Zn} + ^{68}\text{Zn}</math>) (<math>\mu\text{M}</math>)</b>
<i>Control</i>	<i>MTs</i>	1.74 $\pm$ 0.03	0.0 $\pm$ 0.0	1.74 $\pm$ 0.03
+ $^{68}\text{ZnSO}_4$	<i>MTs</i>	0.53 $\pm$ 0.01	6.43 $\pm$ 0.1	6.96 $\pm$ 0.1
+ $^{68}\text{ZnSO}_4$ + <i>IL1<math>\alpha</math></i>	<i>MTs</i>	0.57 $\pm$ 0.05	7.4 $\pm$ 0.3	8.0 $\pm$ 0.3
+ <i>IL1<math>\alpha</math></i>	<i>MTs</i>	3.1 $\pm$ 0.1	0.0 $\pm$ 0.0	3.1 $\pm$ 0.1