



Supplemental Figure 3: Effect of cysteine on the metabolism of [3- ^{13}C]serine by WT and *oastl-C* *Arabidopsis* mitochondria.

(A-C) Time-courses for the total acetyl-[3- ^{13}C]serine ^{13}C NMR signal observed during the metabolism of [3- ^{13}C]serine by WT (●) and *oastl-C* (○) mitochondria in a medium containing 0.5 mM cysteine in three replicate experiments in which the ^{13}C NMR spectra were recorded in successive 15 min blocks. (D) Averaged time-courses for the three replicate experiments. The inset shows that the production of total acetyl-[3- ^{13}C]serine (OAS + NAS) by *oastl-C* mitochondria in the presence of 0.5 mM cysteine was significantly reduced in comparison with the WT mitochondria ($p = 0.035$) over the first 2.5 h of the time-course. OAS +NAS production is expressed as signal intensity relative to the mannitol signal per mg protein.