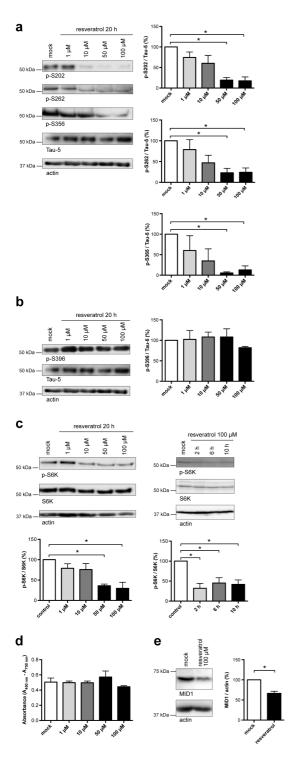
Title: Resveratrol induces dephosphorylation of Tau by interfering with the MID1-PP2A complex

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Supplementary Figures



Supplementary Figure 1:

Resveratrol increases PP2A activity and dephosphorylates Tau at PP2A-sensitive sites in OLN-t40 cells.

(a) OLN-t40 cells were treated with increasing concentrations of resveratrol for 20 hours. Cell lysates were analysed on western blots using an antibody detecting Tau

phosphorylation at S202 (n = 4), S262 (n = 4), and S356 (n = 3), total Tau (Tau-5), and actin. * p < 0.05 (b) OLN-t40 cells were treated with increasing concentrations of resveratrol for 20 hours. Cell lysates were analysed on western blots using antibodies detecting Tau phosphorylation at S396, total Tau (Tau-5), and actin as loading controls. n = 3. (c) OLN-t40 cells were treated with increasing concentrations of resveratrol for 20 hours (n = 4, * p < 0.05) or with 100 μ M resveratrol over increasing time intervals (n = 5, * p < 0.05). Cell lysates were analysed on western blots using antibodies detecting phospho-S6K, total S6K, and actin. (d) Cell viability is not affected by resveratrol. OLN-t40 cells were treated with increasing concentrations of resveratrol for 20 hours and cell viability was measured in a WST-1 assay. Columns represent mean values +/- SEM. (n = 9). (e) Resveratrol reduces MID1 protein level. OLN-t40 cells were treated with 100 μ M resveratrol for 20 hours. Cell lysates were analysed on western blots using antibodies detecting MID1 and actin as loading control (n = 3, * p < 0.05).