



Supplementary Figure 4. Effects of pamidronate on the kinetics of phosphorylation of AKT at each time point in bilirubin-impaired SHED. Sequential expression of AKT and its phosphoprotein p-AKT (Ser) and p-AKT (Thr) by western blot analysis was shown in Figure 3a. Results were shown as the relative phosphorylated expression of p-AKT (Ser) (**a**), p-AKT (Thr) (**b**), and p-AKT (Ser) and p-AKT (Thr) [p-AKT (Ser) + p-AKT (Thr)] (**c**) to AKT, p-AKT (Ser)/AKT, p-AKT (Thr)/AKT, and p-AKT (Ser + Thr)/AKT, respectively, at each time point among the three groups. B0, SHED treated with 0 μ M bilirubin; B50, SHED treated with 50 μ M bilirubin; B50+PAM, SHED treated with 50 μ M bilirubin and 10 μ M pamidronate. $n = 5$ for all groups. Statistical analysis was performed as described in the Methods. Graph bars showed the means \pm SEM. * $P < 0.05$, ** $P < 0.01$ and *** $P < 0.005$. NS: no significance.