



**Figure 3**

Effects of Pi application on the sugar phosphate and adenylate concentrations in rice leaf blades. (a) Scheme of sugar phosphate metabolism in chloroplasts and cytosol. The sugar phosphate concentrations represented by red characters indicate those quantified in this study. (b) Sugar phosphate concentration in rice leaf blades. White, blue, dark blue, purple, pink, and red bars indicate low (0.06 mM), control (0.6 mM), 1.2 mM, 1.8 mM, 2.4 mM, and 3.0 mM treatment conditions, respectively. (c) and (d) Adenylate concentration and ATP/ADP ratio in rice leaf blades. Results are expressed as means  $\pm$  SD ( $n = 3-9$ ). Different letters indicate significant differences among different Pi conditions (Tukey's HSD test,  $p < 0.05$ ).