



**Figure 3**

Effects of Pi application on the sugar-phosphate and adenylate content in rice leaves. (a) shows the scheme of sugar-phosphate metabolism in the chloroplasts and cytosol. The sugar-phosphate content described as red-characters indicate those quantified in this study. (b) shows the sugar-phosphate content in rice leaf blade. 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) show adenylate content and ATP/ADP ratio in rice leaf blade. These results are expressed as mean  $\pm$  SD ( $n = 3-9$ ). Different alphabets indicate significant differences among different Pi application conditions (Tukey-Kramer's HSD test,  $p < 0.05$ ).