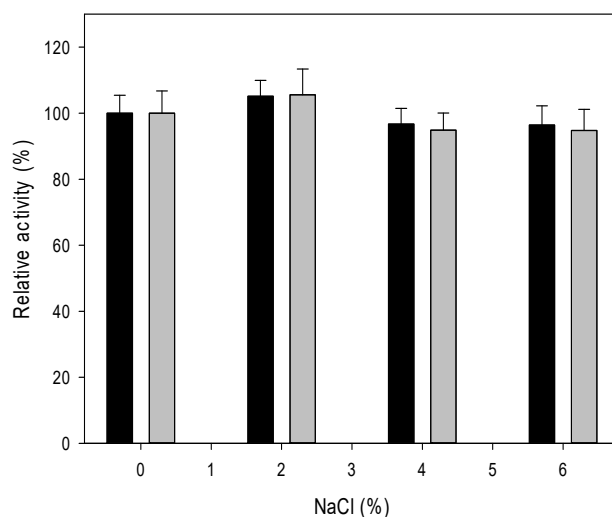


**Figure S1.** Effect of temperature on activity. (a) R5-SazCA; (b) R5-SazCA-SP.



**Figure S2.** Salinity tolerance of R5-SazCA and R5-SazCA-SP. Black bar: R5-SazCA; grey bar: R5-SazCA-SP. The activities in the absence of NaCl were set as 100%. The salinity tolerance was examined by incubating the enzyme with 2%, 4% and 6% (w/v) of NaCl supplemented in storage buffer for 30 min followed by assaying the CO<sub>2</sub> hydratase activity.