



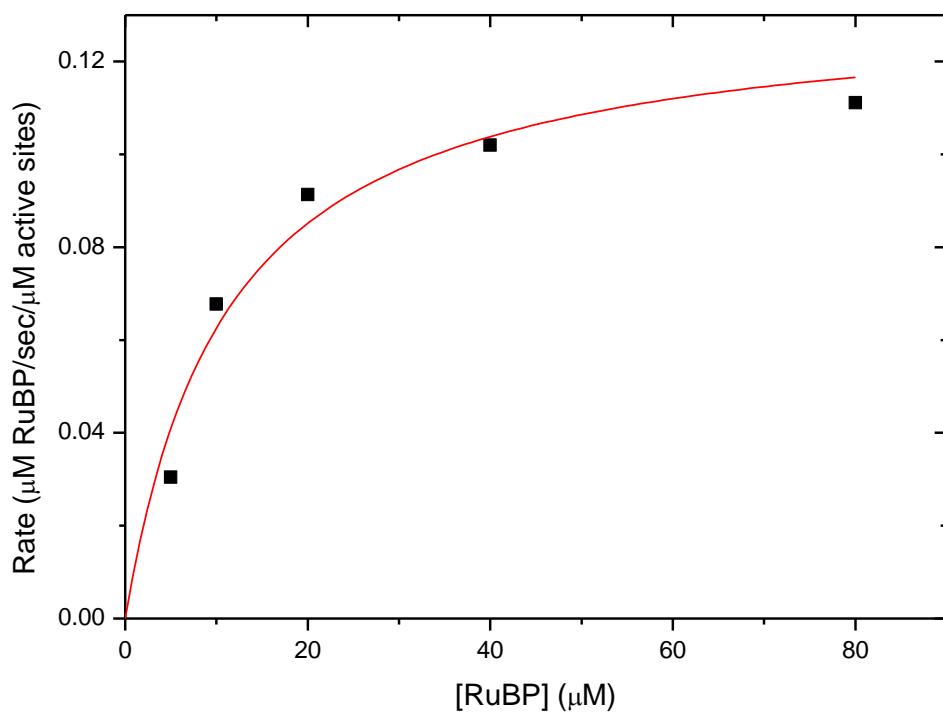
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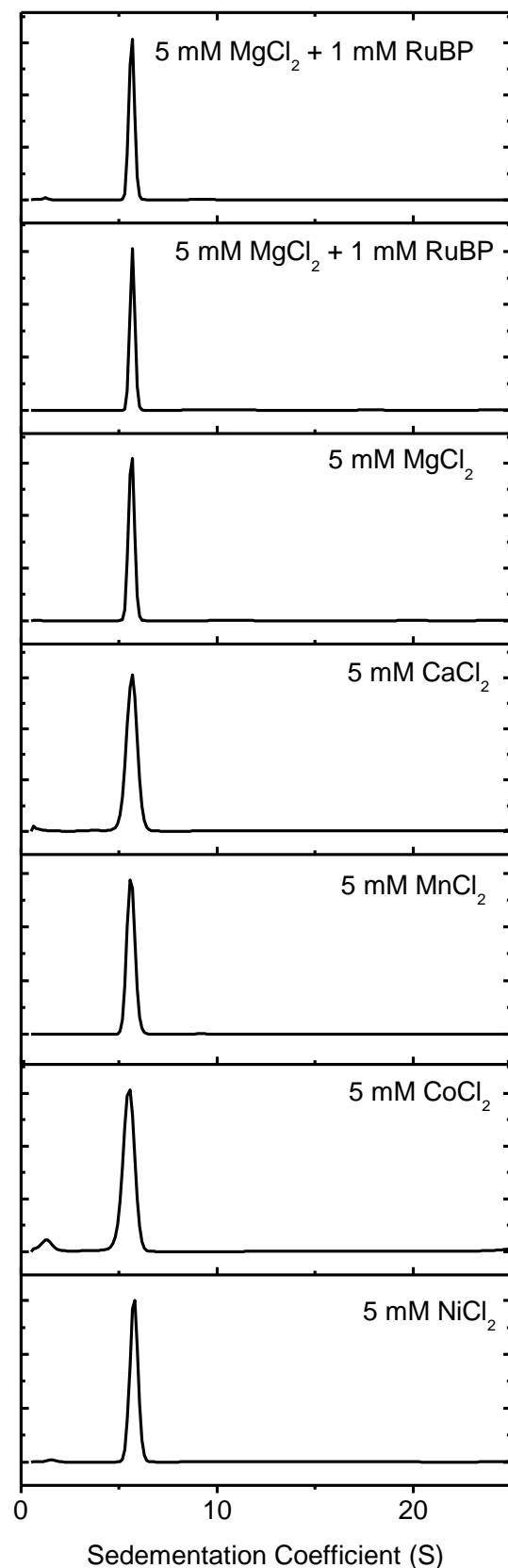
**Supporting information for article:**

**Structure of a hyperthermostable dimeric archaeal Rubisco from *Hyperthermus butylicus***

**Rudy Bundela, Jeremy Keown, Serena Watkin and Frederick Grant Pearce**

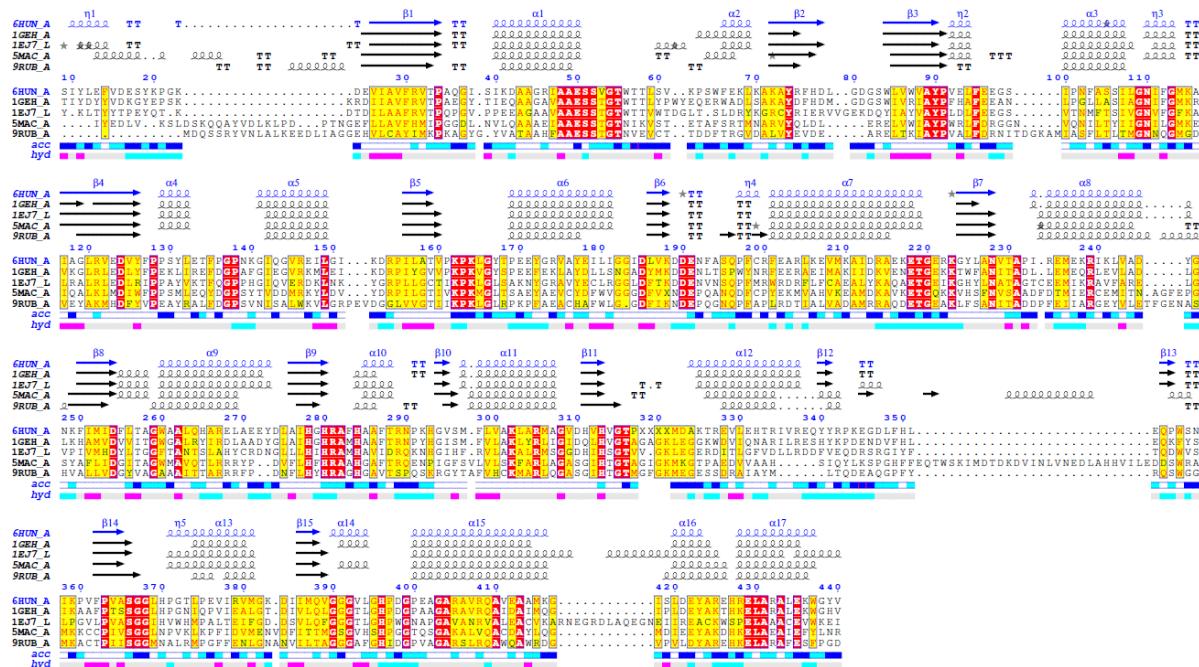


**Figure S1** Rubisco carboxylation activity at 25 °C was determined as described in the experimental section. Kcat was determined to be 0.13 s-1, and Km(RuBP) was 11 μM.



**Figure S2** Sedimentation velocity analysis of *Hbu*-Rubisco by analytical ultracentrifugation.

Experiments were conducted using protein concentrations of 0.3 mg/ml, and buffer containing 20 mM Tris-HCl, pH 8.0, 150 mM NaCl in addition to the additives described in each panel.



**Figure S3** Alignment of *H. butylicus* (pdb: 6HUN), *T. kodakarensis* (pdb: 1GEH), *M. burtonii* (pdb: 5MAC), tobacco (pdb: 1EJ7) and *R. rubrum* (pdb:9RUB) Rubisco sequences.