



STRUCTURAL BIOLOGY  
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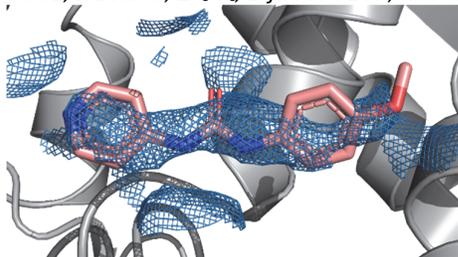
**Supporting information for article:**

**Structures of the *Plasmodium falciparum* heat-shock protein 70-x  
ATPase domain in complex with chemical fragments identify  
conserved and unique binding sites**

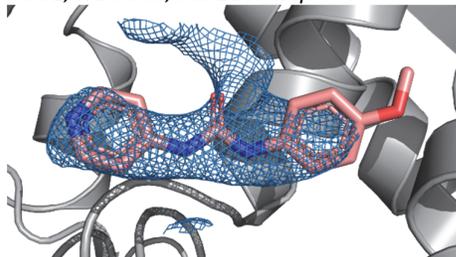
**Nada Mohamad, Ailsa O'Donoghue, Anastassia L. Kantsadi and Ioannis  
Vakonakis**

## Supporting Figures

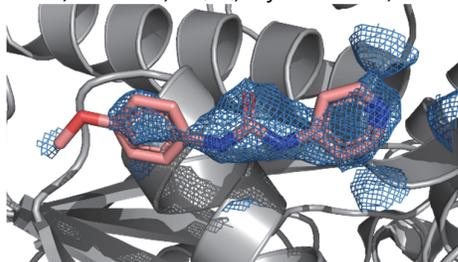
700E, JHJ A509, 2F<sub>o</sub>-F<sub>c</sub>, B-factor 81 Å<sup>2</sup>, Occ 0.73, RSR 0.21



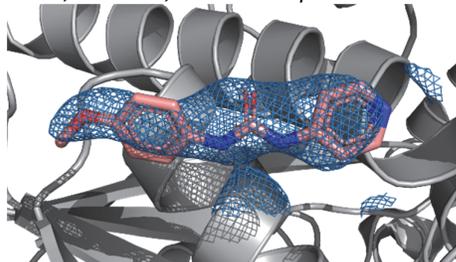
700E, JHJ A509, PanDDA map



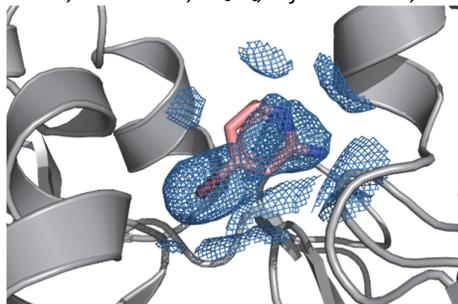
700E, JHJ A515, 2F<sub>o</sub>-F<sub>c</sub>, B-factor 68 Å<sup>2</sup>, Occ 0.66, RSR 0.32



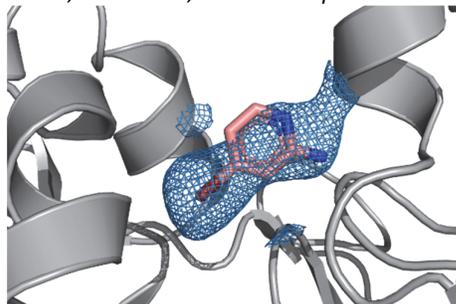
700E, JHJ A515, PanDDA map



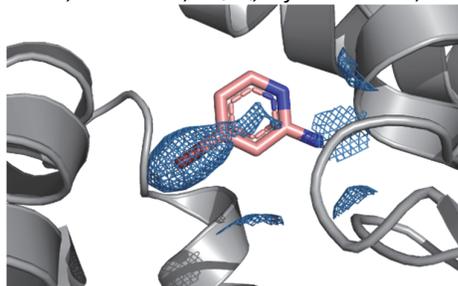
700G, HEW A511, 2F<sub>o</sub>-F<sub>c</sub>, B-factor 70 Å<sup>2</sup>, Occ 0.7, RSR 0.2



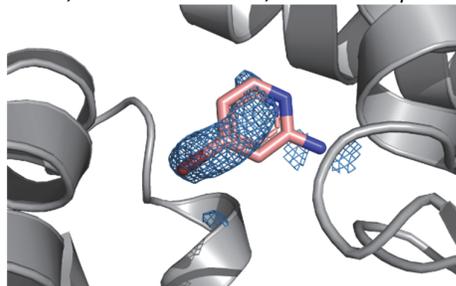
700G, HEW A511, PanDDA map



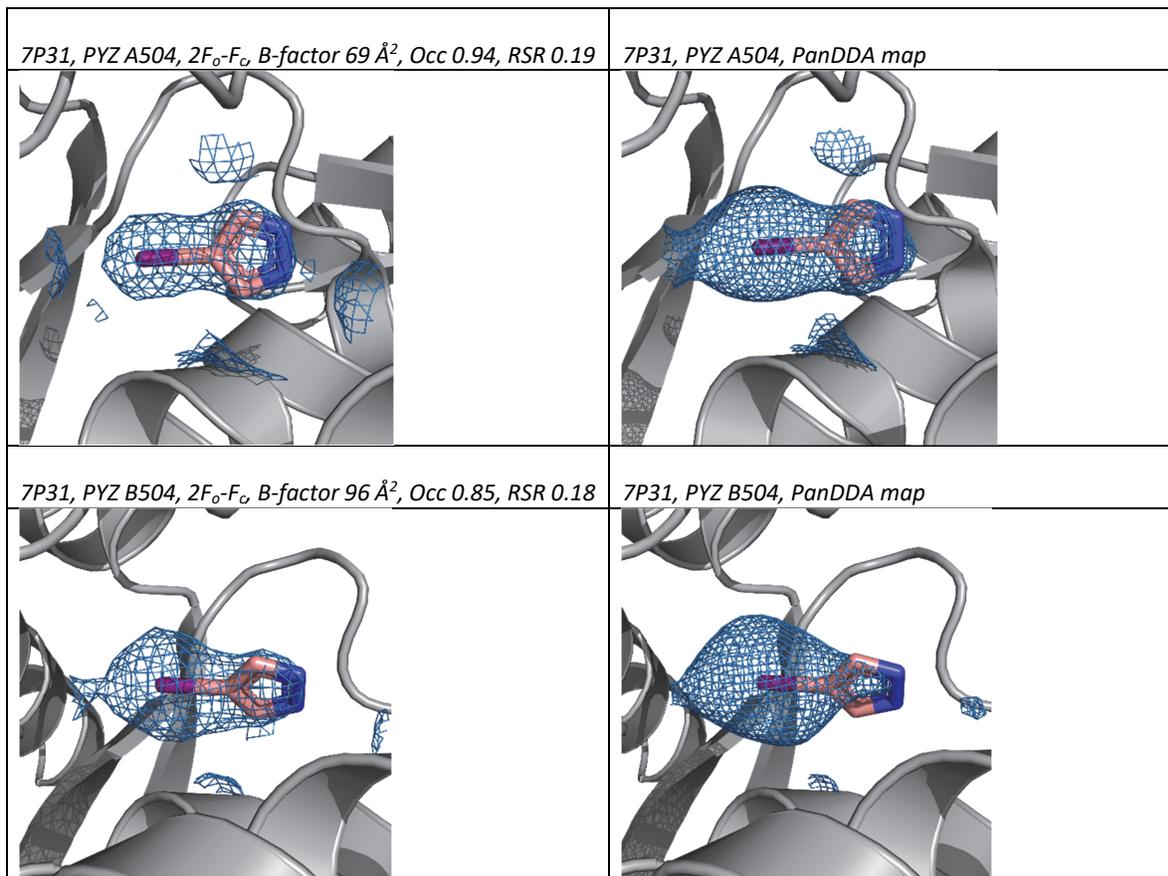
700G, HEW B511, 2F<sub>o</sub>-F<sub>c</sub>, B-factor 125 Å<sup>2</sup>, Occ 0.72, RSR 0.2



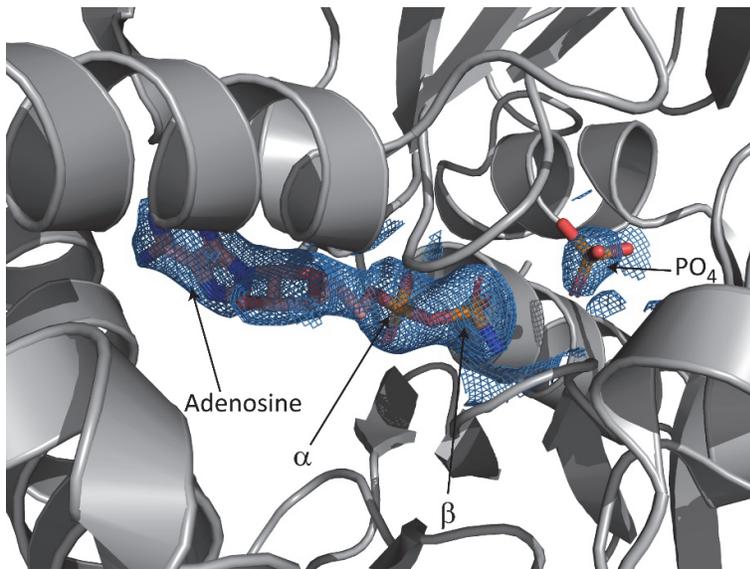
700G, HEW residue B511, PanDDA map



*Fig. S1: Electron density of fragments.* Shown here are (left column) 2F<sub>o</sub>-F<sub>c</sub> electron densities and (right column) PanDDA difference densities of fragments bound to the PfHsp70-x ATPase domain, truncated at 3 Å distance from any ligand atom. The structure PDB IDs, ligand residue numbers, B-factors, occupancies (Occ) and real-space R values (RSR) are indicated. For ligand PYZ (entry 7P31, next page) reported occupancies exclude the iodine atom. 2F<sub>o</sub>-F<sub>c</sub> densities were plotted at 1 r.m.s.d. level; PanDDA densities at 2 r.m.s.d. level. Figure continues on the next page.



*Fig. S1 continued*



*Fig. S2: Nucleotide electron density in PfHsp70-x ATPase domain crystals. Shown here is exemplar 2F<sub>o</sub>-F<sub>c</sub> electron density for the bound nucleotide in PfHsp70-x ATPase domain crystals and its surrounding environment, drawn from entry 7OOE chain A. The electron density was plotted at 2 r.m.s.d. level. As seen, PfHsp70-x crystals trapped a hydrolysed nucleotide state with clear density for the leaving phosphate group.*

