

Supplemental information

Location is everything: Influence of His-tag fusion site on properties of adenylosuccinate synthetase from *Helicobacter pylori*

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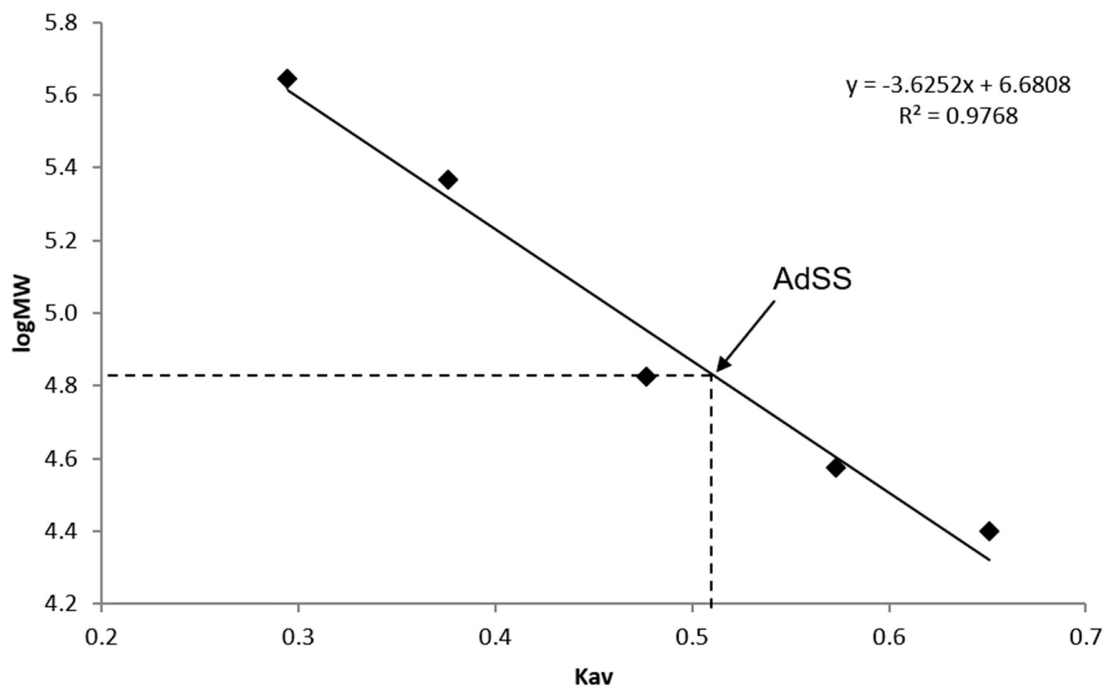


Figure S1. Estimation of *H. pylori* AdSS molecular weight by size-exclusion chromatography on Superdex 200 Increase 10/300 GL column (Cytiva Life Sciences). Calibration curve for the used column, using several proteins from the Gel Filtration Calibration Kit (Cytiva Life Sciences) – chymotrypsinogen A (25 kDa), yeast alcohol dehydrogenase (37.5 kDa), bovine serum albumin (67 kDa), catalase (232 kDa) and ferritin (440 kDa), and void volume determined with Blue Dextran. Average distribution constant, K_{av} was calculated as $K_{av} = (V_e - V_0) / (V_c - V_0)$, where V_e is the elution volume, V_0 – void volume of the column (9.13 mL), V_c – geometrical bed volume of the column (23.6 mL). $V_e(\text{N-His-AdSS}) = 16.54$ mL, $V_e(\text{C-His-AdSS}) = 16.50$ mL.

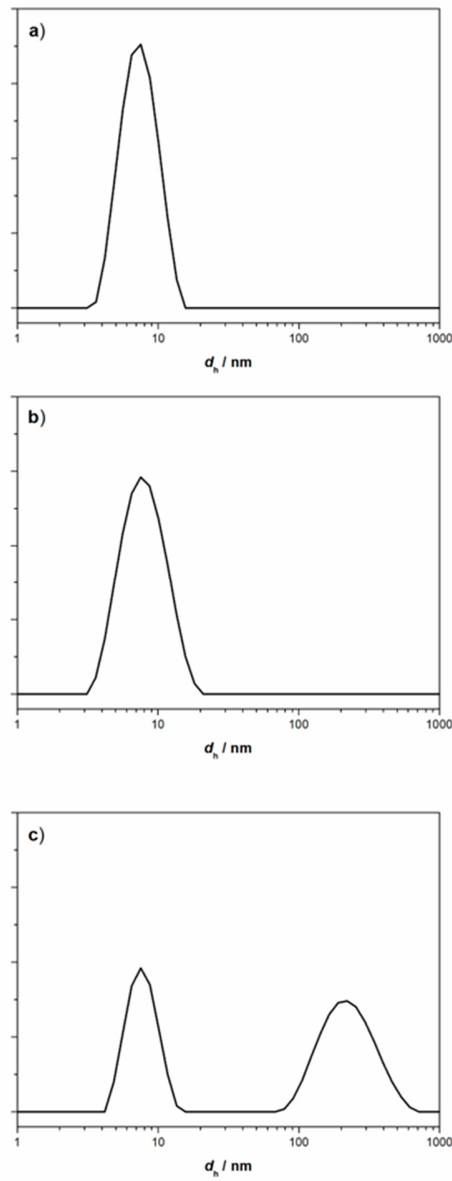


Figure S2. Results of the representative DLS experiment showing the intensity size distributions for 1 mg/mL suspensions of three variants of *H. pylori* AdSS in 20 mM Hepes-NaOH pH 7.0 buffer containing 150 mM NaCl and 1 mM 2-mercaptoethanol (SEC buffer), taken at 4 °C: **(a)** WT, **(b)** C-His and **(c)** N-His.