



Supplementary data

## Assessing the interactions of statins with human adenylate kinase isoenzyme 1: fluorescence and enzyme kinetic studies

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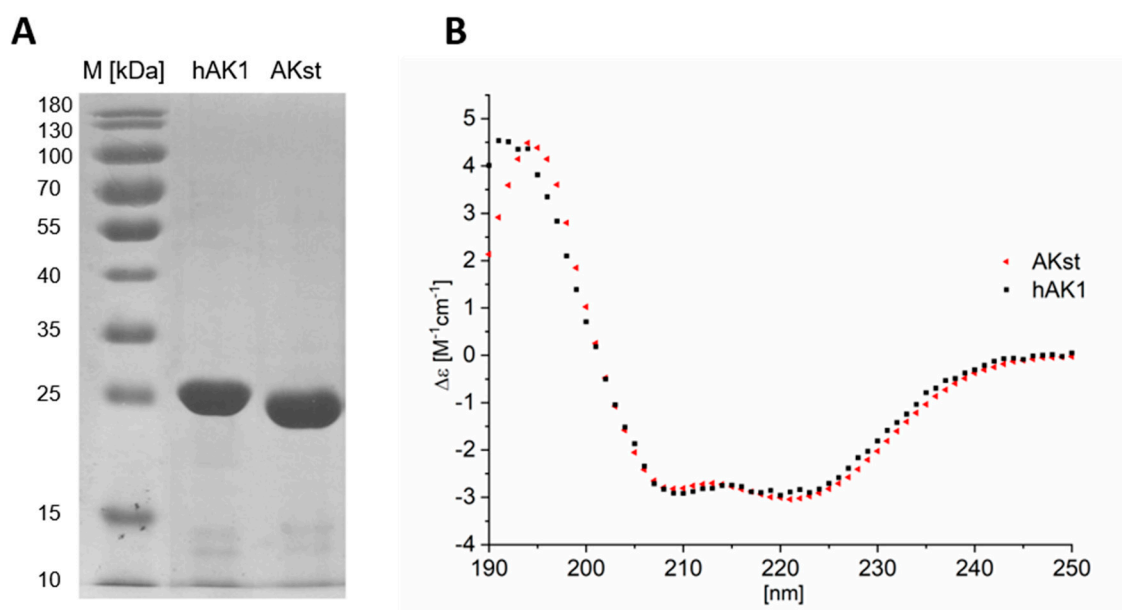
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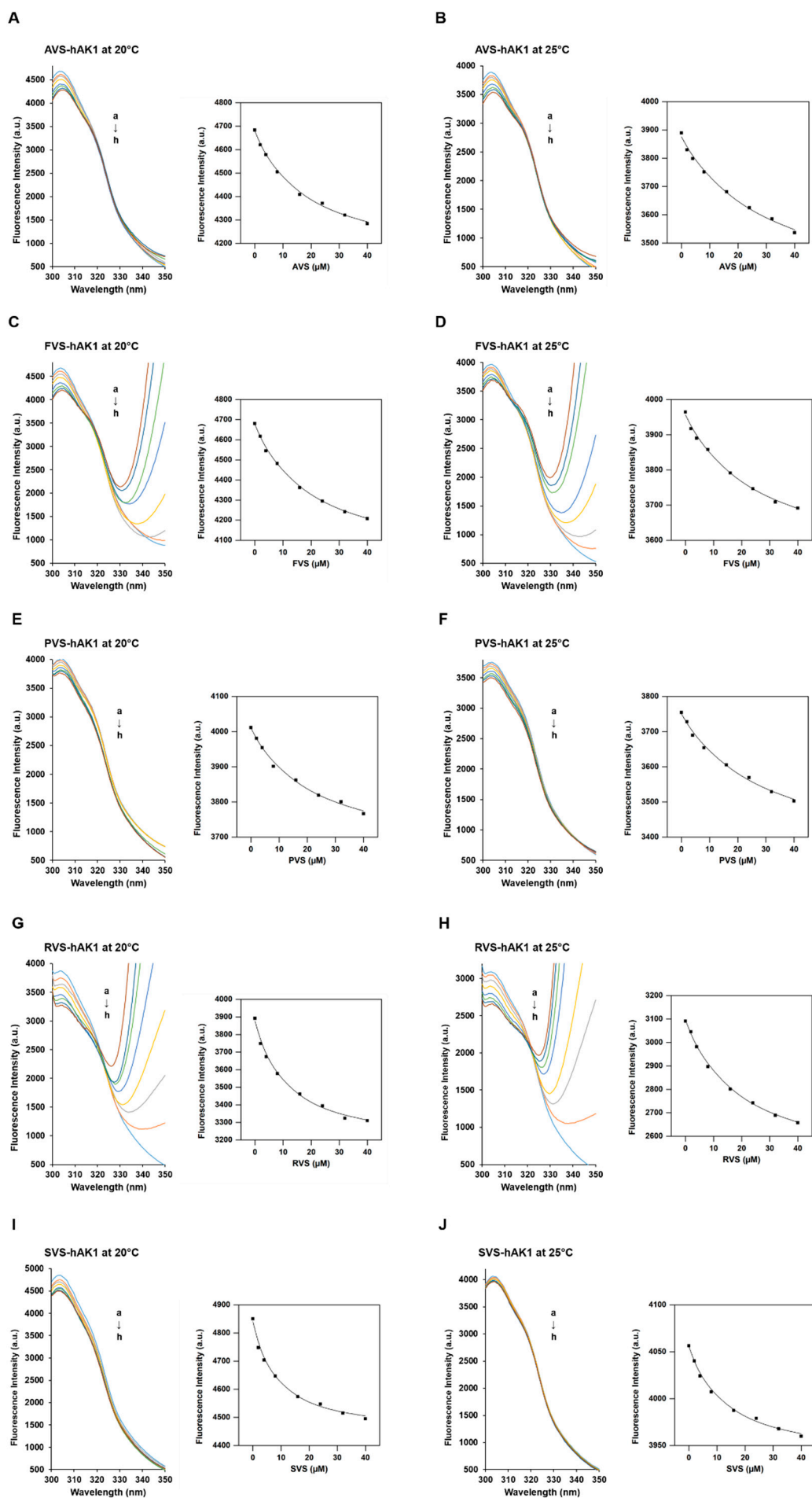
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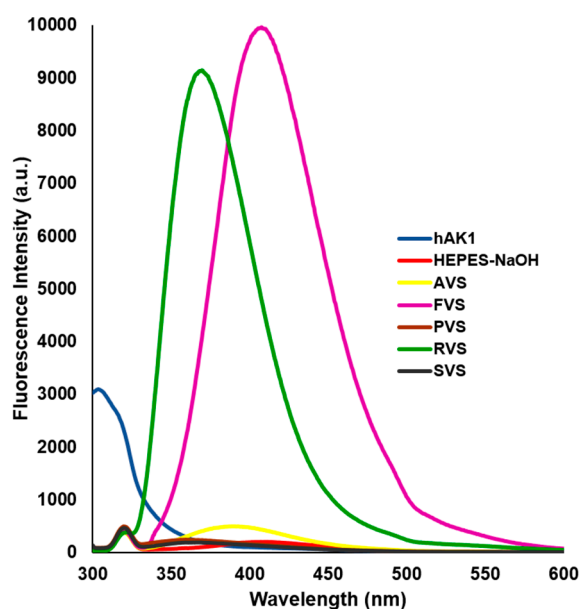
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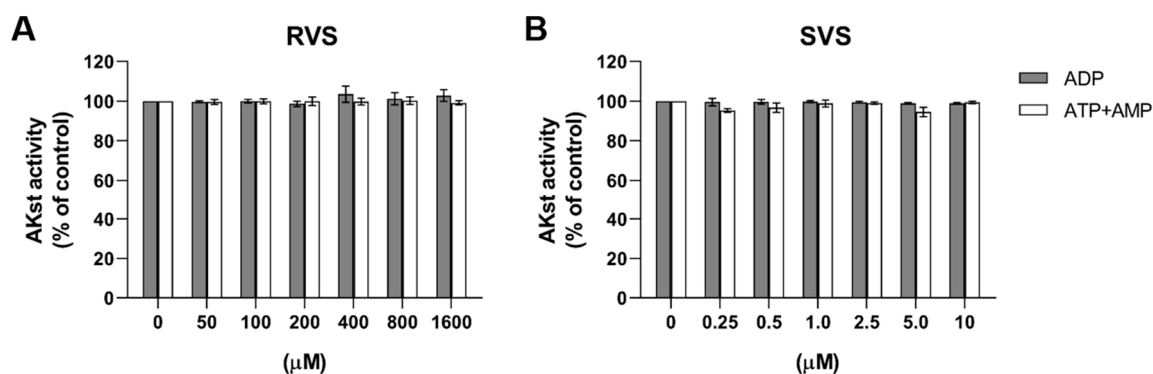
**Figure S1.** (A) SDS-PAGE and (B) Far-UV CD spectrum analysis of the purified adenylate kinases.



**Figure S2.** The fluorescence quenching of hAK1 in the presence of (A, B) atorvastatin, (C, D) fluvastatin, (E, F) pravastatin, (G, H) rosuvastatin and (I, J) simvastatin at (A, C, E, G, I) 20°C and (B, D, F, H, J) 25°C. (left) Emission spectra of hAK1 in the presence of statin, (right) dependence of fluorescence intensity on statin concentration. The concentration of hAK1 was 2  $\mu$ M. The concentrations of five statins from a to h were 0, 2, 4, 8, 16, 24, 32, and 40  $\mu$ M, respectively.



**Figure S3.** Emission spectra of 2  $\mu$ M hAK1, 25 mM HEPES-NaOH (pH = 7.5), and five statins at the concentration of 40  $\mu$ M.



**Figure S4.** Effect of (A) rosuvastatin and (B) simvastatin on the AKst enzymatic activity in the presence of ADP or ATP and AMP as substrates, 1 mM each.



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