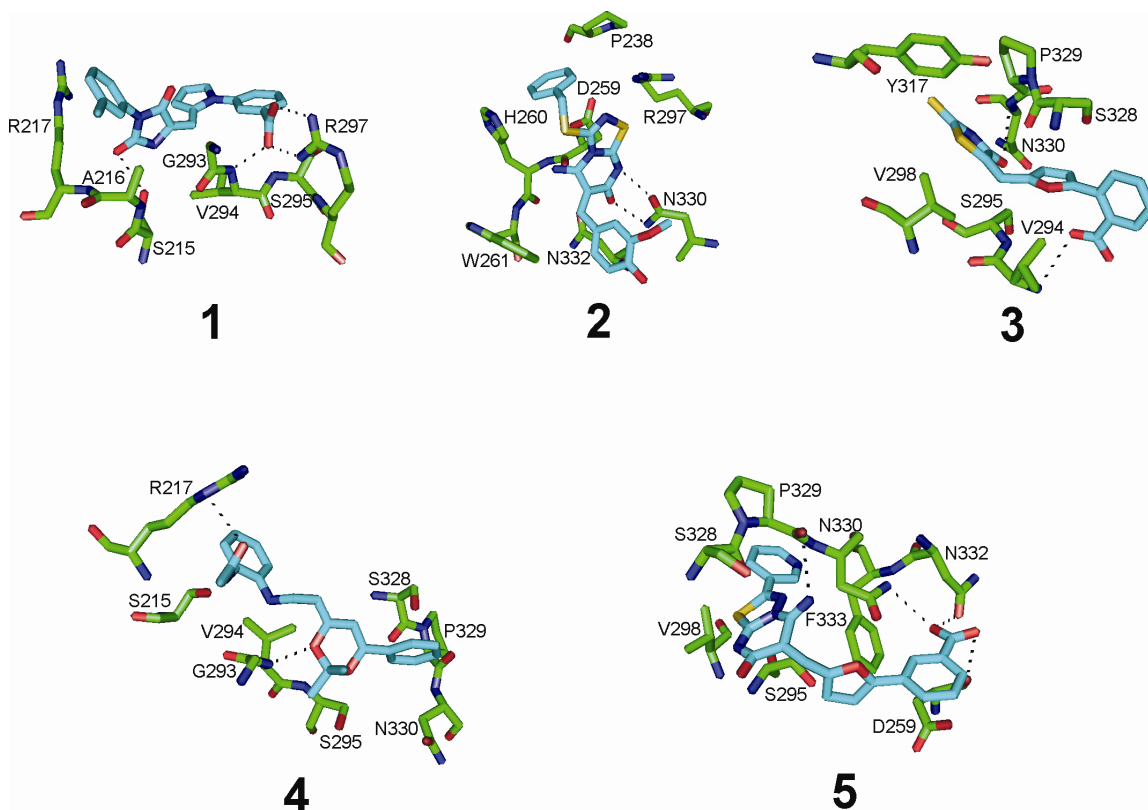
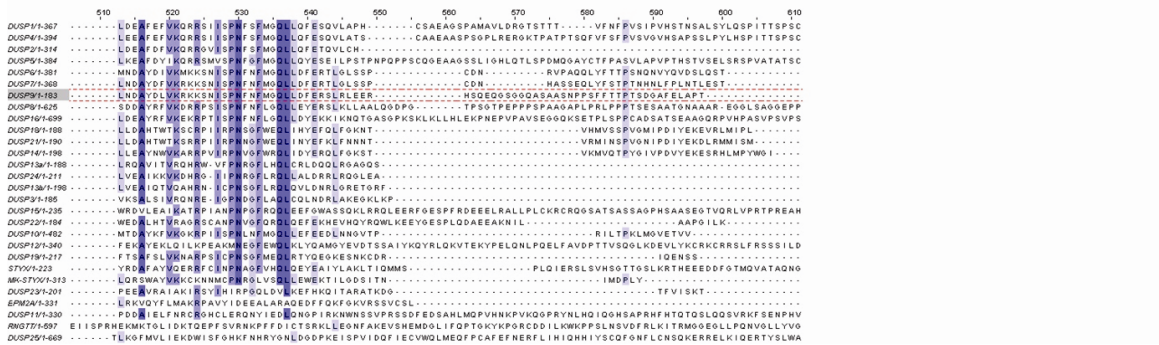
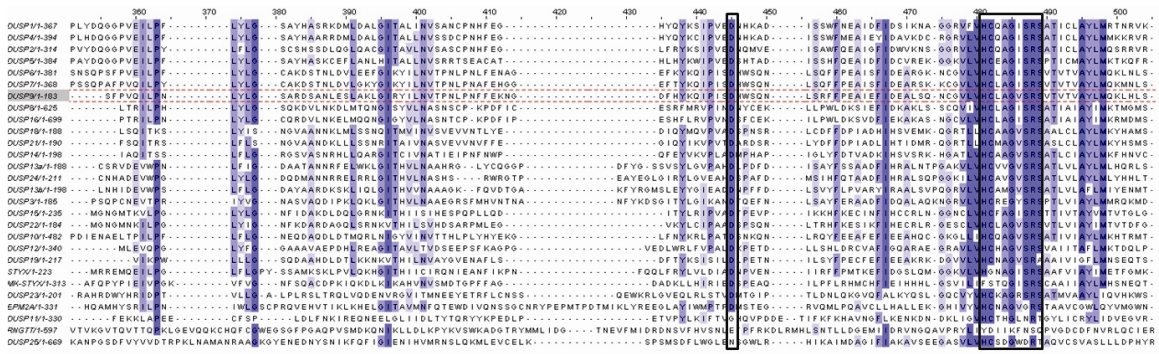


Supplementary Material



Supplementary Figure 1

Calculated binding modes of five compounds in MKP-4. Carbon atoms of the protein and the inhibitors are indicated in green and cyan, respectively. Dotted lines indicated hydrogen bonds.



Supplementary Figure 2

Sequences of MKP-4 (gene name; DUSP9, enclosed by broken red line) are aligned with those of other available 26 human DUSP members including 11 MKPs and 16 atypical DUSPs. The alignment was performed using JALVIEW (www.jalview.org). The residues being more than 70% conserved are shaded in blue. The residues in the active site (PTP-loop and a general acid) are enclosed by black line.