



Figure 9. Crystal structure of HDAC proteins complexed with inhibitors. Molecular surfaces of the inhibitor-bound HDLP/HDACs cut at the level of the cavity are illustrated. (A) HDLP with TSA (PDB ID: 1C3R), (B) HDAC2 with benzamide (3MAX), and (C) HDAC8 with largazole (3RQD). The outer surfaces are depicted in light brown, and zinc atoms are shown in space-filled spheres in gray. Close-up views of the active sites are shown in the lower panels. Inhibitors are depicted in a stick model, in which yellow, blue, red, and gold represent C, N, O, and S atoms, respectively. Three Zn-coordinating residues (two aspartic acid and one histidine residue) are shown in a stick model. Hydrogen bond interactions are drawn in dotted lines.