Supplemental Figure S4



<u>Fig. S4.</u> Mutations that disrupt ADMIDAS increase ligand binding. *A* & *C*. Ribbon structure [from (28,30)] depicting the I and Hybrid (yellow) domains in the closed (A) and open (C) conformations. Loops with ADMIDAS coordinating residues are colored [loop- α 1,1' (blue), β6-loop- α 7 (magenta), and β4-loop (green)] and expanded in *B* (closed) and *D* (open). Amino acids corresponding to those mutated in Drosophila βPS and analyzed for ligand binding are labeled (black and underlined). **D126**, **D127**, **M335**, and **D251** are ADMIDAS coordinating residues whose position relative to the ADMIDAS Ca²⁺ (A, red) are changed in the transition to the open state. The other divalent cations are SyMBS Ca²⁺ (S, light green), and MIDAS Mg²⁺ (M, green). Hydrogen bonds are shown as green dashed lines in *B* and *D*.