



**Supplementary Figure 1.** 5AHQ inhibits the proteasome noncompetitively. Proteasomes isolated from rabbit muscle were treated with 0 (black circle), 2.5 (open circle), 5 (black triangle), or 10  $\mu\text{M}$  (open triangle) 5AHQ (**A**) or 0 (black circle), 0.078 (open circle), 0.156 (black triangle), 0.312 (open triangle), 0.625 (black square), or 1.25 (open square)  $\mu\text{M}$  MG132 (**B**). After incubation, increasing concentrations (31.25, 62.5, 125, 250  $\mu\text{M}$ ) of the fluorogenic substrate Z-LLE-AMC were added and the rate of free AMC was measured over time with the use of a fluorescence spectrophotometric plate reader (excitation = 380 nm, emission = 460 nm). Data points represent the mean rate of AMC release from an experiment performed in triplicate ( $n=3$ ) Lineweaver–Burk plots are presented as a fit to a noncompetitive model of inhibition for 5AHQ (**A**) and a competitive model for MG132 (**B**).