Figure S3: Validation of proteasomal integrity by Native Page and mass spectrometry. A) SILAC-labeled proteasomes were treated with USP2 for 1 h at 4°C. SC and DC were separated by native PAGE and detected by Coomassie stain. B) Bands of DC and SC particles were excised from the gel in A). Heavy (H) and Light (L) samples of DC and SC were mixed together and analyzed by mass spectrometry. The Log2 ratio shows the expected 2:1 ratio of 19S subunits between DC to SC particles (normalized to the averaged value of all 20S subunits) as well as specific association of Ecm29 with DC particles and proteasome activator PA28γ with SC particles. No differences were seen after USP2 digest. C) SILAC-labeled proteasomes were isolated from cells treated with 30 nM BTZ or DMSO for 8 h 30 nM. SC and DC were separated by native PAGE and detected by Coomassie stain. D) Bands of DC and SC particles were excised from the gel, mixed and analyzed by mass spectrometry (normalized to 20S).