A Hsp90 and Pih do not show effects similar to RuvbL on aggresome.

A HSP90 inhibitor, 17AAG, induces recruitment of synphilin-GFP to aggresome and does not inhibit aggresome formation in response to MG132. Inhibitors were added to cells simultaneously.

B Depletion of Pih1 does not affect aggresome formation in response to MG132. Conditions of the experiment are described in Fig 2A and B. Experiments were performed in duplicates. Error bars represent standard deviations of the repeats.

B RuvbL does not cooperate with Hsp70-Hsp40 in suppression of amyloid formation in vitro.

A Hsc70 and Hsp40 do not show synergy or additivity with RuvbL complex in suppression of seeding and polymerization of Aβ amyloid fibrils. HSPs—Hsp70 + Hsp40. Conditions of the experiment are described in Fig 6A.

B Hsc70 and Hsp40 do not affect casein-stimulated ATPase activity of RuvbL. Conditions of the experiment are described in Fig 5C. Error bars represent standard deviations of the repeats.

Figure EV1. Hsp90 and Pih do not show effects similar to RuvbL on aggresome.

Figure EV2. RuvbL does not cooperate with Hsp70-Hsp40 in suppression of amyloid formation in vitro.
Figure EV3. RuvBL depletion does not affect refolding of luciferase. HeLa cells expressing luciferase were exposed to heat shock at 45°C for 40 min, and luciferase activity was assessed after 1 h of recovery. Experiments were performed in triplicates. Error bars represent standard deviations of the repeats.

Figure EV4. RuvBL depletion inhibits disaggregation of ubiquitinated proteins. Experiment was done at the same conditions as in Fig 6D. Control and RuvBL1-depleted cells that express synphilin-GFP were treated with MG132, and immunostained for ubiquitin.

Figure EV5. Inhibitor of the Hsp70-Hsp40 interaction, myricetin, does not affect disaggregation of synphilin-GFP. Condition of the experiment were similar to Fig 6D. Cells were treated with MG132 in the presence of nocodazole to form aggregates, and both inhibitors were washed out. Recovery of aggregates was followed in the presence or absence of 10 μM myricetin. Error bars represent standard deviations of the repeats.