**Movie S1. Cell body tracking of MDA-MB-231LN treated with MLN8237 and/or eribulin during collagen invasion**

Representative movie of individual MDA-MB-231LN cells treated with Vehicle, MLN8237, eribulin, or MLN8237/eribulin combination, suspended in collagen, and manually tracked over the course of 23 hours toward the serum chemoattractant-containing reservoir (left side of frame). Scale bar, 20 µm.

**Movie S2. Cell body tracking of BT-549 treated with MLN8237 and/or eribulin during collagen invasion**

Representative movie of individual BT-549 cells treated with Vehicle, MLN8237, eribulin, or MLN8237/eribulin combination, suspended in collagen, and manually tracked over the course of 23 hours toward the serum chemoattractant-containing reservoir (left side of frame). Scale bar, 10 µm.