

Supporting Information

Screening MT1-MMP Activity and Inhibition in Three-dimensional Tumor Spheroids

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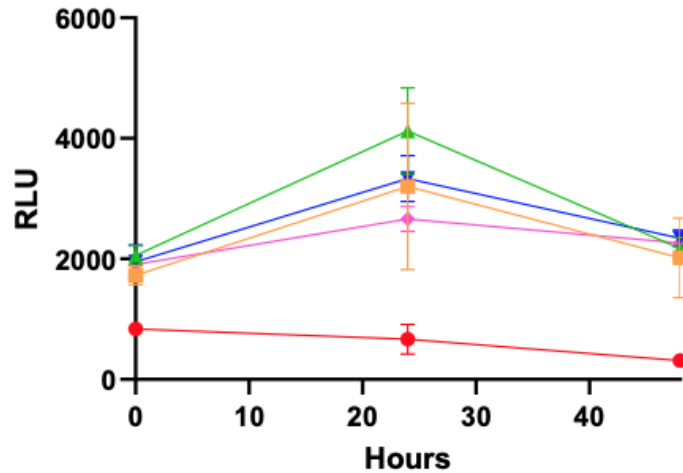


Figure S1: Viability of WM266 spheroids in the presence of 0 (purple diamond), 125 (blue inverted triangle), 250 (green triangle), 500 (orange square), and 1000 (red circle) μ M marimastat over time.

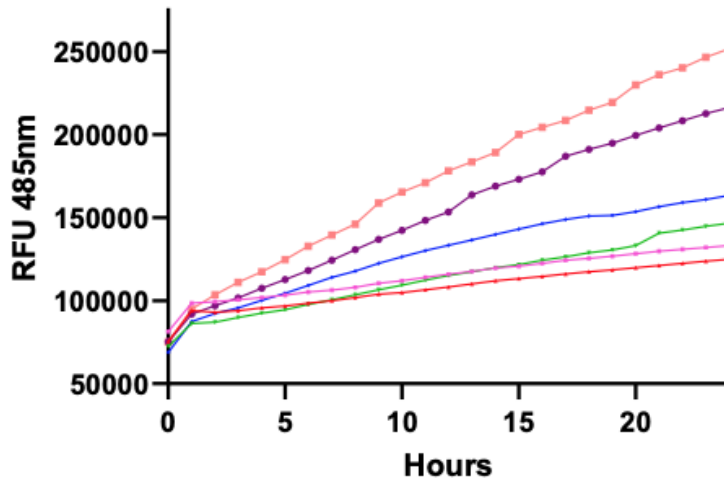


Figure S2: Processing of FAM-fTHP-9 by WM266 spheroids in the presence of 3 (pink square), 131 (purple circle), 197 (blue diamond), 296 (green inverted triangle), 444 (red diamond), and 667 (purple square) μ M marimastat after 24 h.

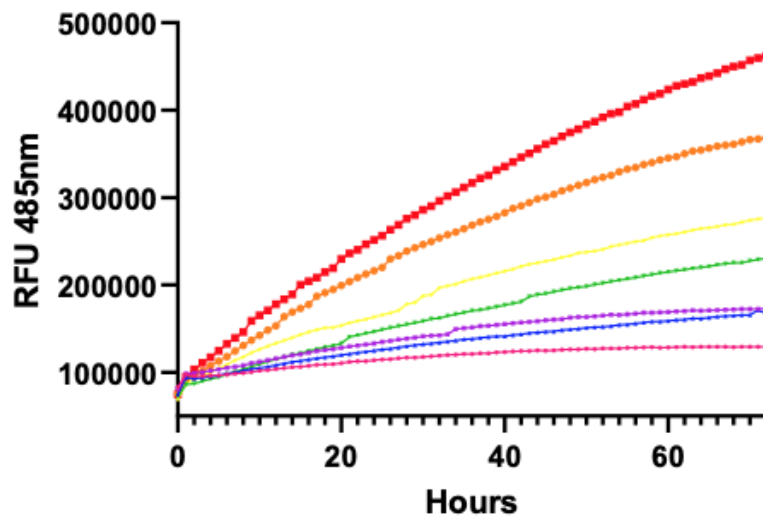


Figure S3: Processing of FAM-fTHP-9 by WM266 spheroids in the presence of 3 (red square), 131 (orange diamond), 197 (yellow square), 296 (green inverted triangle), 444 (blue triangle), 667 (purple square), and 1000 (pink circle) μ M marimastat after 72 h.

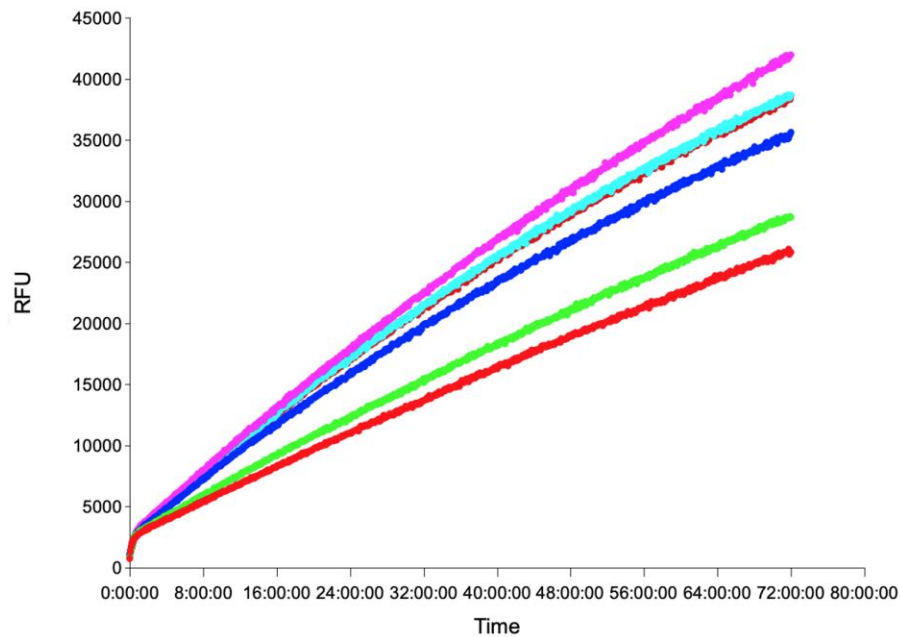


Figure S4: DMEM processing of FAM-fTHP-9 and inhibition by no (dark red, purple, and aqua) or 1.0 mM (blue, green, and red) PMSF.

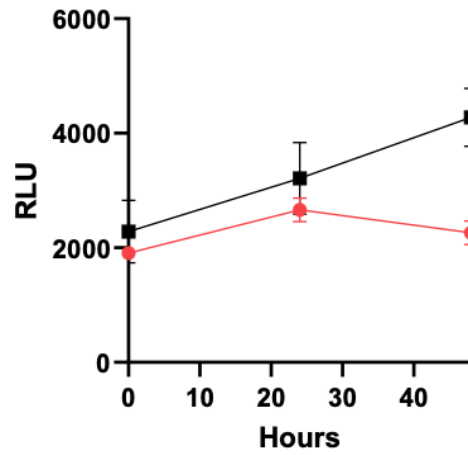


Figure S5: WM266 spheroid survival in DMEM with (black squares) and without (red circles) FBS and phenol red over time.

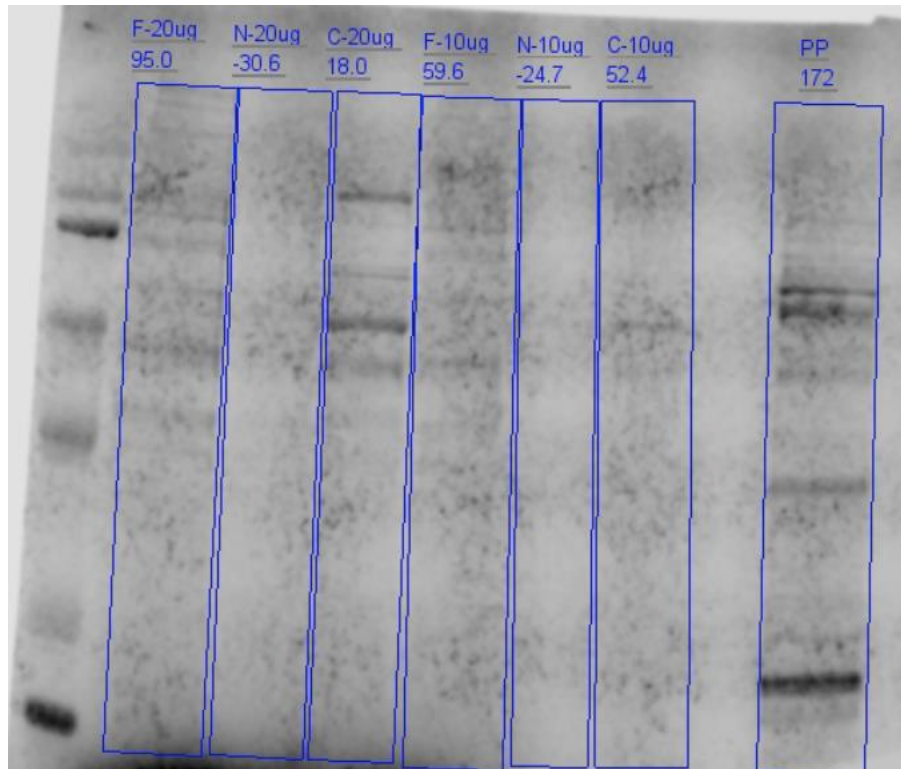


Figure S6: Western blot analysis of A172 cell culture (F), spheroids (N), and spheroids incubated with collagen (1:3) for detection of MT1-MMP using a mAb. Gel shows 53 kDa MT1-MMP when collagen is present, while pure MT1-MMP (PP) shows the proenzyme and 33 kDa autocleavage product.

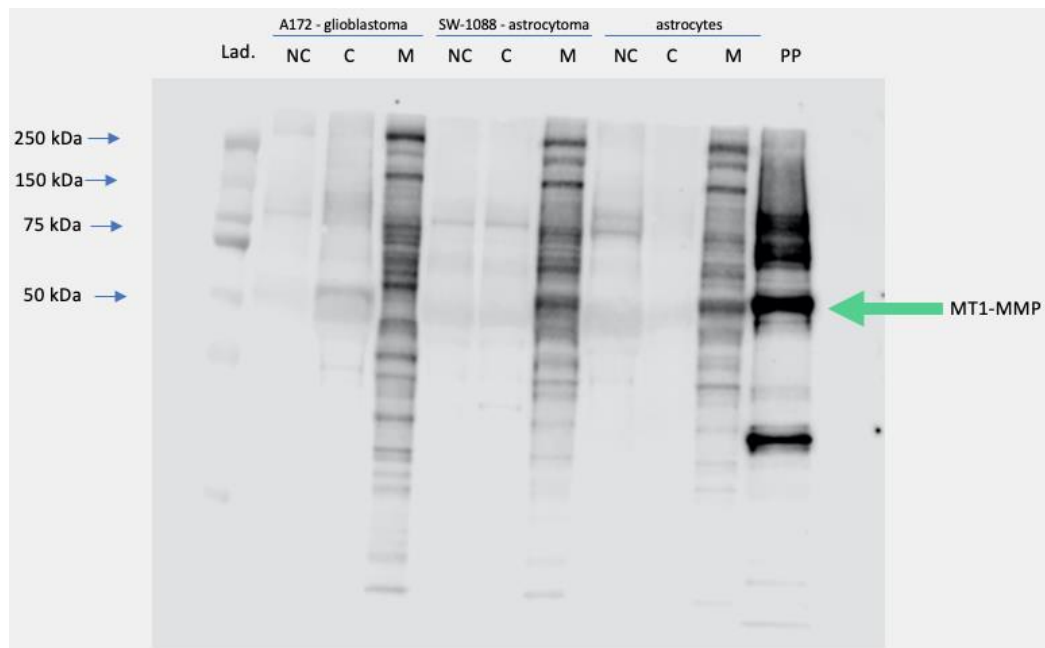


Figure S7: Western blot analysis of MT1-MMP. NC = No collagen spheroid, C = Collagen spheroid, M = Monolayer cell culture, Lad = Ladder with standards, PP = Pure protein. For each sample 20 μ g of protein was loaded.

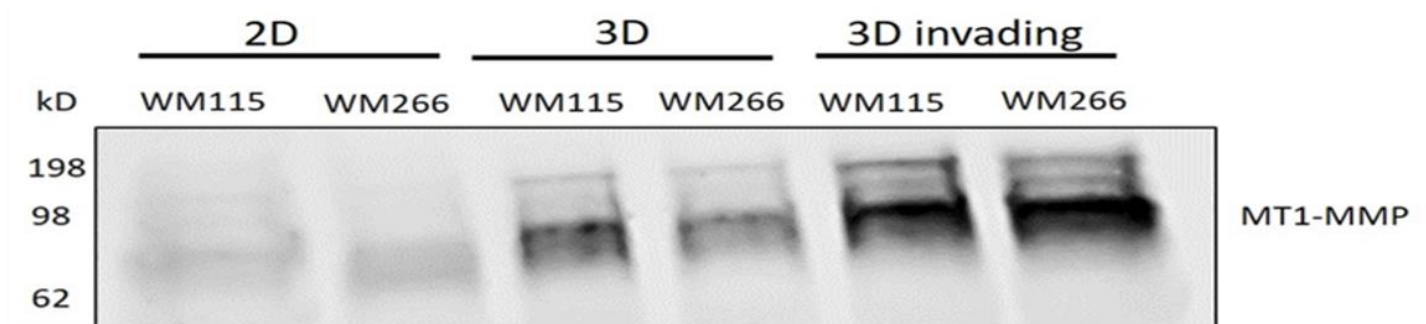


Figure S8: Western blot of WM115 and WM266 cell culture (2D) and spheroids (3D) for detection of MT1-MMP.

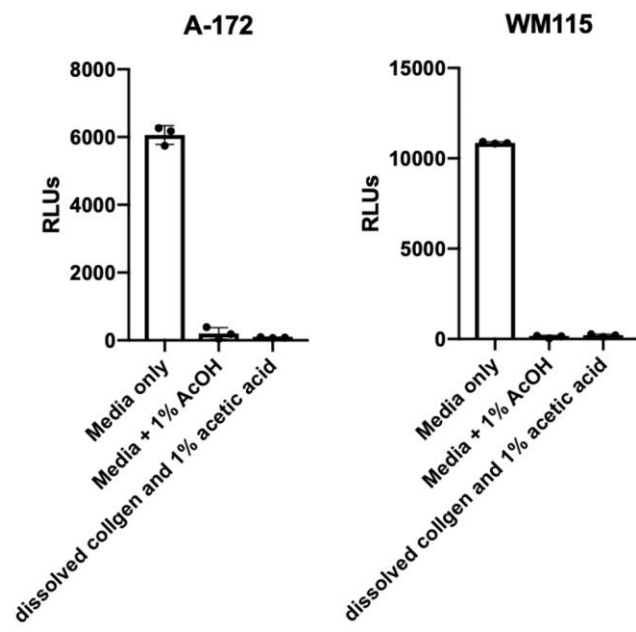


Figure S9: Spheroid viability in the presence of 1% acetic acid.