Supplementary Materials: Staphylococcal Superantigen-Like Protein 1 and 5 (SSL1 & SSL5) Limit Neutrophil Chemotaxis and Migration through MMP-Inhibition

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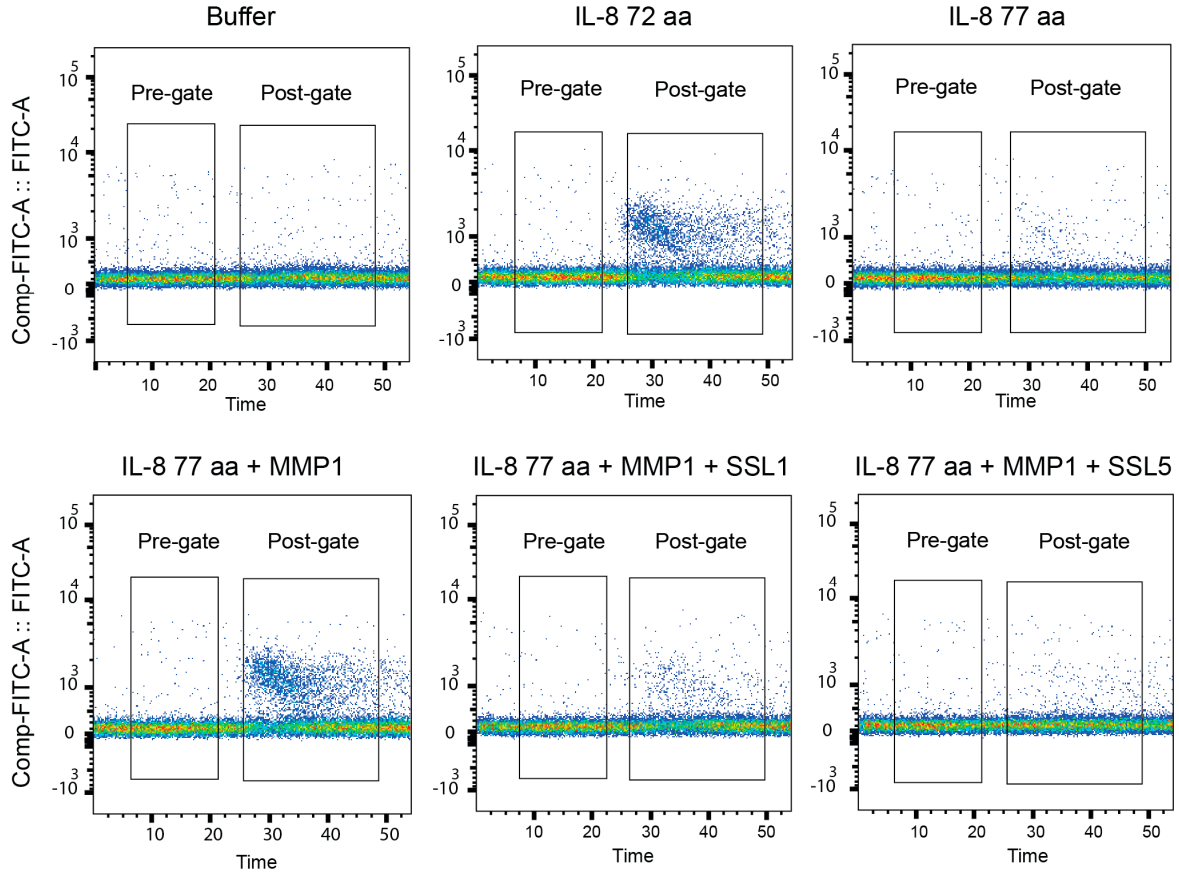

Figure S1. Calcium flux image of a representative experiment with MMP1.

U937 cells stably expressing CXCR1 were stimulated with different variants of IL-8 (all final concentration of 1×10^{-7} M): IL-8 72 aa, IL-8 77 aa, IL-8 77 aa treated with MMP (10 µg/mL), and IL-8 77 aa treated with a combination of MMP and SSL (10 µg/mL). The mixes were allowed to incubate overnight before calcium flux was determined. Samples were measured for 50 s (stimulus was added after 10 s) and mean FITC-A fluorescence was determined pre-stimulus (Pre-gate) and post-stimulus (Post-gate). To define the final calcium flux for each sample the mean fluorescence from the Pre-gate was subtracted from the mean fluorescence from the Post-gate.

Table S1. Characteristics and activation of the MMPs and ADAMs.

MMP	Activation	Trypsin Concentration	Concentration in Activity Assay
MMP1 (Interstitial collagenase)	20 min at RT	10 μg/mL	2 μg/mL
MMP2 (Gelatinase A)	2 h at 37 °C	–	4 μg/mL
MMP7 (Matrilysin)	2 h at 37 °C	10 μg/mL	1 μg/mL
MMP8 (Neutrophil collagenase)	3 h at 37 °C	10 μg/mL	2 μg/mL
MMP9 (Gelatinase B)	2 h at 37 °C	10 μg/mL	0.8 μg/mL
MMP12 (Macrophage elastase)	20 min at RT	10 μg/mL	1 μg/mL
MMP13 (Collagenase-3)	30 min at 37 °C	10 μg/mL	0.4 μg/mL
MMP14 (MT1-MMP)	60 min at RT	5 μg/mL	2 μg/mL
ADAM10	–	–	2 μg/mL
ADAM17	–	–	0.8–2 μg/mL