Supporting information

Decorin Mimic Regulates Platelet-Derived Growth Factor and Interferon-γ Stimulation of Vascular Smooth Muscle Cells

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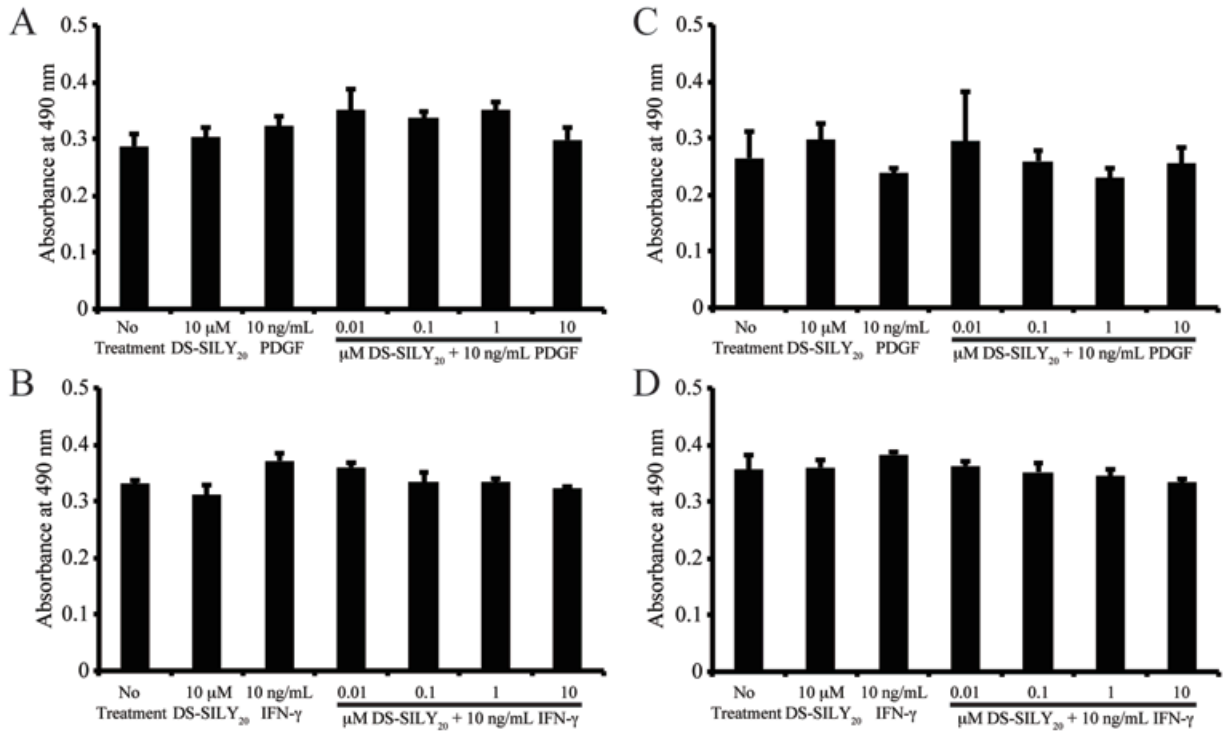

Figure S1. SMC metabolic activity is not altered with DS-SILY$_{20}$, PDGF, or IFN-γ. Metabolic activity was measured via MTS assay in (A, B) proliferative and (C, D) quiescent SMCs stimulated with 10 ng/mL (A, C) PDGF or (B, D) IFN-γ. Cell metabolism was measured 24 hrs post-treatment. (N>6).

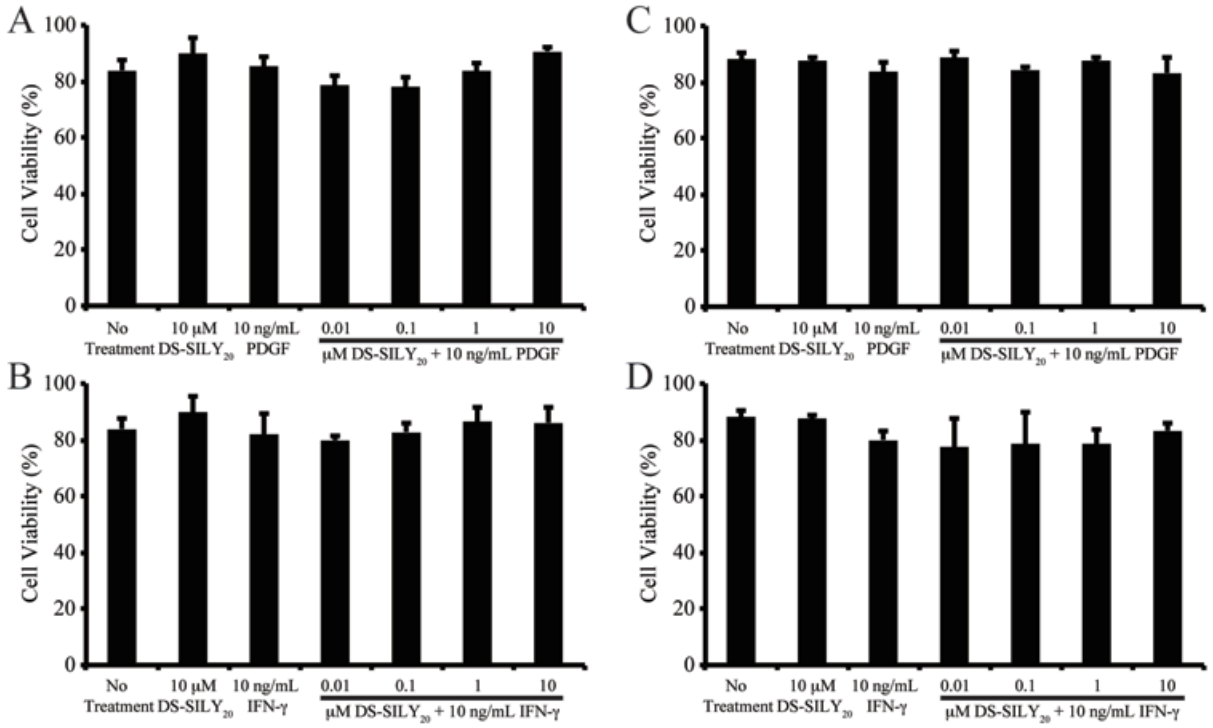

Figure S2. SMC viability is not altered with DS-SILY$_{20}$, PDGF, or IFN-γ. Cell viability was measured via Live/Dead assay in (A, B) proliferative and (C, D) quiescent SMCs stimulated with 10 ng/mL (A, C) PDGF or (B, D) IFN-γ. SMC viability was measured 24 hrs post-treatment. (N>6).

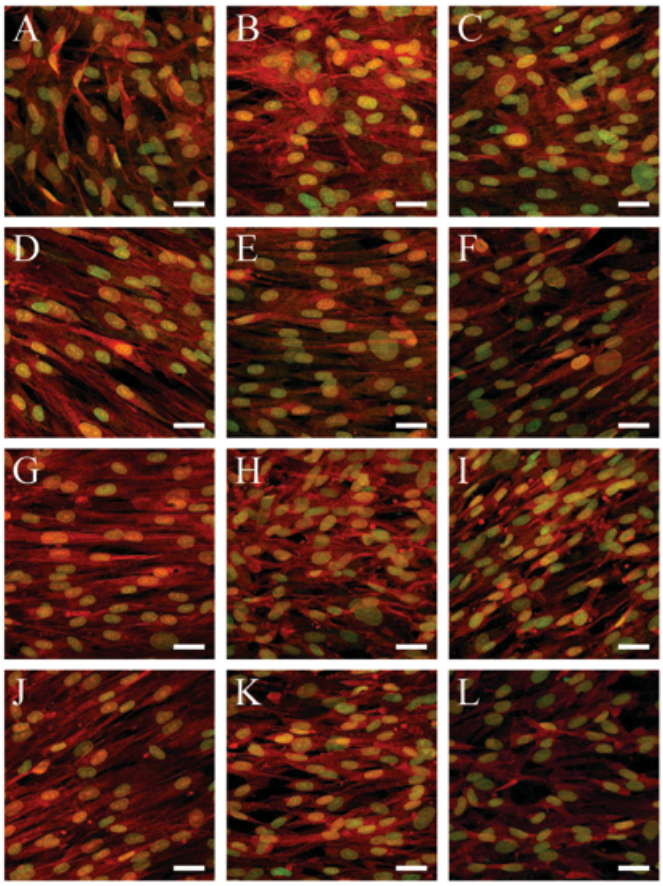

Figure S3. Representative images depicting the morphology of (A-F) proliferative and (G-L) quiescent SMCs following treatment with DS-SILY$_{20}$, PDGF, and IFN-γ. Cultures were exposed to (A, G) No Treatment, (B, H) 10 ng/mL PDGF, (C, I) 10 ng/mL IFN-γ, (D, J) 10 μM DS-SILY$_{20}$, (E, K) 10 μM DS-SILY$_{20}$ and 10 ng/mL PDGF, or (F,L) 10 μM DS-SILY$_{20}$ and 10 ng/mL IFN-γ for 24 hrs. Scale bars = 30 μm.

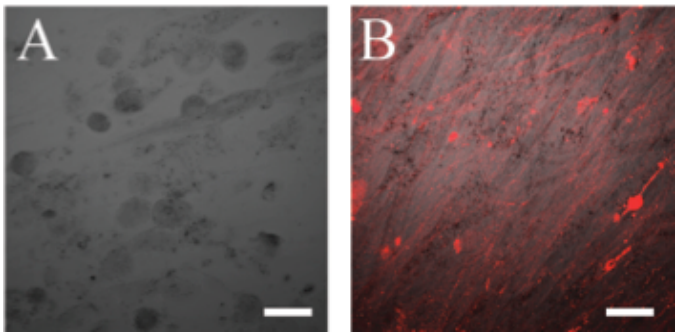

Figure S4. DS-SILY$_{20}$ binds to the surface of SMCs cultured *in vitro*. SMCs were incubated in the (A) absence or (B) presence of 10 μM DS-SILY$_{20\text{-biotin}}$ for 15 mins. Following rinsing with PBS, samples were incubated with streptavidin-Dylight 633 (Invitrogen), diluted 1:200 in 1% BSA in PBS, for 20 mins at room temperature with shaking. Plates were then rinsed three times with PBS to remove any unbound streptavidin-Dylight 633 prior to visualization using an Olympus FV1000 confocal microscope with 60x objective. Scans were completed with a xy area of 512 μm^2 and one stack, 14 μm (1 μm per step) in the z-direction, was taken at three separate locations in each culture. DS-SILY$_{20\text{-biotin}}$ was found bound to ECM surrounding the SMCs. Scale bars = 30 μm.