Supplementary Materials: Induction of Syndecan-4 by Organic-Inorganic Hybrid Molecules with a 1,10-Phenanthroline Structure in Cultured Vascular Endothelial Cells

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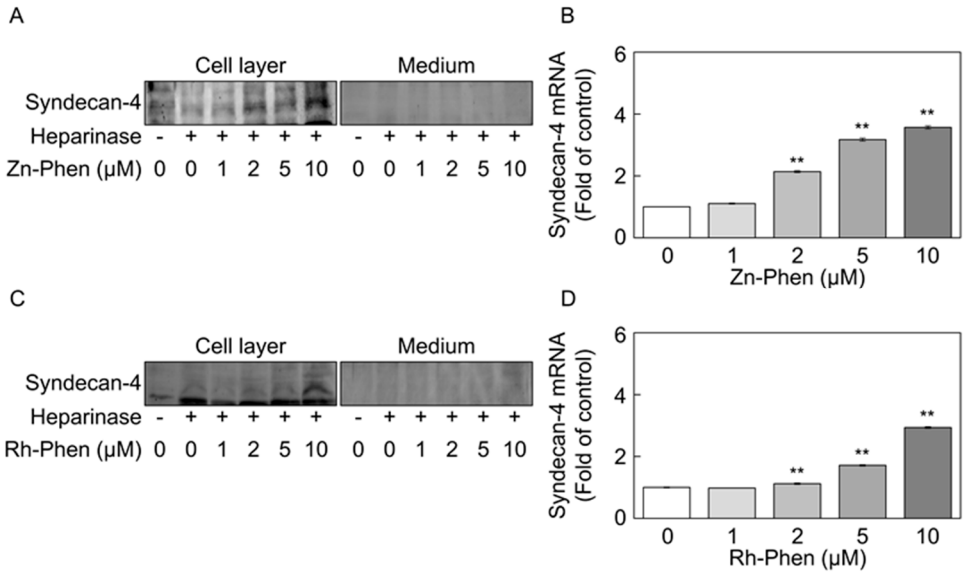

Figure S1. Effects of Zn-Phen and Rh-Phen on syndecan-4 expression of in vascular endothelial cells. Bovine aortic endothelial cells were treated with Zn-Phen (**A**,**B**) or Rh-Phen (**C**,**D**) at 1, 2, 5, or 10 μM each at 37 °C for 24 h. Syndecan-4 core protein and mRNA were analyzed by Western blot and real time RT-PCR respectively Values are means ± S.E.M. of four samples. ** $p < 0.01$ vs. the corresponding control.

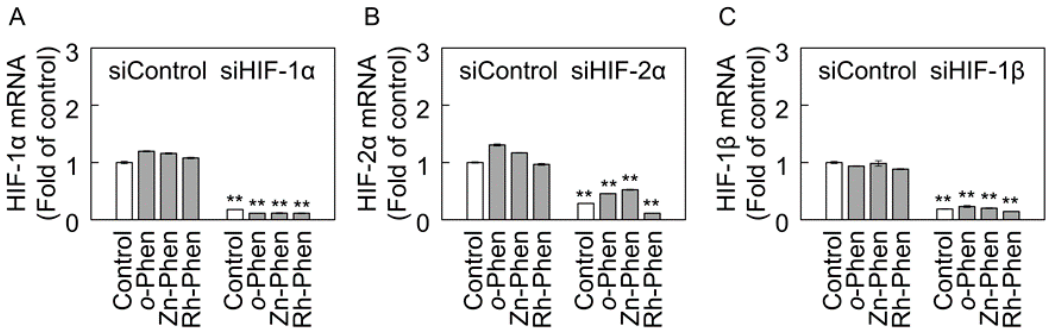

Figure S2. siRNA-mediated knockdown of hypoxia-inducible factor (HIF)-1α, HIF-2α, and HIF-1β in vascular endothelial cells. Bovine aortic endothelial cells were transfected with (**A**) siHIF-1α; (**B**) siHIF-2α, or (**C**) siHIF-1β, and the mRNA levels of the corresponding HIF proteins were determined by real time RT-PCR. Values are means ± S.E.M. of four samples. ** $p < 0.01$ vs. the corresponding siControl.

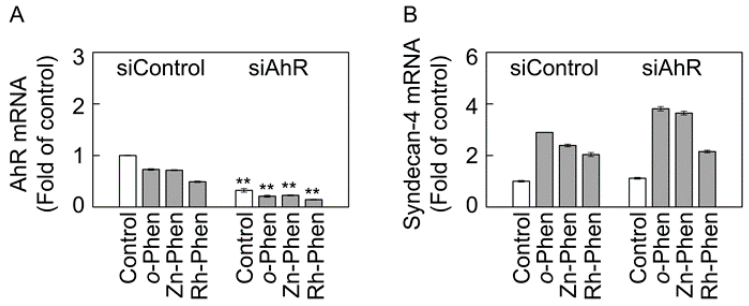

Figure S3. Involvement of aryl hydrocarbon receptor (AhR) in the induction of syndecan-4 expression by *o*-Phen, Zn-Phen, and Rh-Phen in vascular endothelial cells. Bovine aortic endothelial cells were transfected with siAhR at 37 °C for 12 h and treated with *o*-Phen, Zn-Phen, or Rh-Phen at 5 μM each at 37 °C for 8 h. (**A**) AhR mRNA levels; (**B**) syndecan-4 mRNA levels were analzed by real time RT-PCR. Values are means ± S.E.M. of four samples. ** $p < 0.01$ vs. the corresponding siControl.