

Reply to the Comment by Lobov et al. “Conformational rearrangements of plasminogen activator inhibitor type 2”

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This reply refers to the Comment “Conformational rearrangements of plasminogen activator inhibitor type 2” by S. Lobova, M. Wilczynska, M. Ranson and T. Ny in Cell. Mol. Life Sci. (DOI: 10.1007/s00018-009-9039-0).

As Dr. Lobov and the colleagues pointed out, the last paragraph in the section of “PAI-2 (*Serpin B2*)” contains our misunderstanding. The conformation change of two monomeric and inhibitory active forms of PAI-2 (the stable monomeric and the polymerogenic forms) may modify its biological functions. The polymerogenic form, but not the stable monomeric form of PAI-2 is stabilized by a disulfide bond between Cys79 (in the CD loop) and Cys161 (at

the bottom of helix F), and these two forms are interconvertible, depending on redox potential of the environment [68]. The polymerogenic form is prone to polymerization and polymers of PAI-2 formed in the cell secretory pathway retain their inhibitory activity with their functions unknown [66, 67, Lobov et al. unpublished data]. We thank Dr. Lobov and the colleagues for giving us the comment and would like to correct this paragraph.

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