Development and preclinical pharmacokinetics of a novel subcutaneous thermoresponsive system for prolonged delivery of heparin

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Individual pharmacokinetic profiles of heparin in rats following administration of heparin solution (S), thermoresponsive hydrogel in heparin solution (F1/S), heparin-chitosan nanocomplexes (NC2), and thermoresponsive hydrogel in dispersion of heparin/chitosan nanocomplexes (F1/NC2) with typical (population) model predictions (blue dashed line) and individual predictions (red solid line).