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Title: Injectable thermo-responsive hydrogel composed of xanthan gum and methylcellulose double networks with shear-thinning property

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Highlights

- 2 1. Xanthan gum and methylcellulose forms blend in aqueous solution.
- 3 2. The blend is a high viscous solution at room temperature.
- 4 3. The blend immediately forms hydrogel at body temperature after injection.
- 5 4. The hydrogel is biocompatible and biodegradable in rat body.
- 6 5. The hydrogel can be used as a long-term drug delivery material.

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