Supporting Information

Hyaluronan derived nanoparticle for simvastatin delivery: Evaluation of simvastatin induced myotoxicity in tissue engineered skeletal muscle

Julia M. Jones,a,b Darren J. Player,a Sumanta Samanta,c Vignesh K. Rangasami,c Jöns Hilborn,d Mark P. Lewis,b Oommen P. Oommen*,c and Vivek Muderaa

Table S1: Primer Sequences used for detection of differentiation and matrix remodelling mRNA expression levels.

<table>
<thead>
<tr>
<th>Target mRNA</th>
<th>Primer Sequence (5’-3’)</th>
<th>Product Length</th>
<th>NCBI Reference Sequence</th>
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</table>
| RPII-β      | F: GGTCAGAAGGGAACCTTGTGTAT  
             R: GCATCATTAATGGAGTAGCTGTC | 197 | NM_153798.2 |
| Myogenin    | F: CCAACTGAGATTGTCTGTC  
             R: GGTGTTAGCCTTATGTGAAT | 173 | NM_031189.2 |
| MMP2        | F: GAGATCTTCTTCTTCAAGGAC  
             R: AATAGACCCAGTACTCATTCC | 181 | NM_008610.3 |
| MMP9        | F: CTGGCAGAGGCCATCTTG  
             R: GCCGTAGAGACTGCTTCT | 76 | NM_013599.4 |
Figure S1: $^1$H NMR spectrogram of HA-DA in D$_2$O at 25 °C. The aromatic signals do not correlate to the degree of dopamine modification due to self-assembly consistent with the literature.
Figure S2: $^1$H NMR spectrogram of HA-DA-NPs in D$_2$O at 25 °C. The aromatic signals do not correlate to the degree of dopamine and fluorescein modification due to self-assembly consistent with our previous report$^ii$. 
Figure S3: Images of the PEEK Chamber (mould) used for casting the SkM construct. (A). Schematic illustration (B). Rendered computer aided design (CAD) image. (C). Experimental image of PEEK mould containing SkM hydrogel.

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