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Supplementary spectroscopic data

Gregoritza et al. Design of hydrogels for delayed antibody release utilizing hydrophobic association and Diels-Alder chemistry in tandem

8armPEG40k-furan



¹H-NMR (CDCl₃, 300 MHz): δ (ppm) = 2.47 (t, 16H, -C(O)CH₂CH₂Ar), 2.97 (t, 16H, -C(O)CH₂CH₂Ar), 3.62 (s, -OCH₂CH₂-), 6.01 (s, 8H, Ar), 6.24 (s, 8H, Ar), 7.28 (s, 8H, Ar).

8armPEG40k-maleimide



¹H-NMR (CDCl₃, 300 MHz): δ (ppm) = 3.62 (s, -0CH₂CH₂-), 6.64 (s, 16H, -C(0)CH=CHC(0)-).

8armPEG40k-C₆-NH-Boc



8armPEG40k-C₆-furan



¹H-NMR (CDCl₃, 300 MHz): δ (ppm) = 1.29 (m, 16H, -C(0)CH₂CH₂CH₂CH₂CH₂CH₂NH-), 1.46 (m, 16H, -C(0)CH₂CH₂CH₂CH₂CH₂CH₂CH₂NH-), 1.62 (m, 16H, -C(0)CH₂CH₂CH₂CH₂CH₂NH-), 2.17 (m, 16H, -C(0)CH₂CH₂CH₂CH₂CH₂NH-), 2.47 (t, 16H, -C(0)CH₂CH₂Ar), 2.96 (t, 16H, -C(0)CH₂CH₂Ar), 3.20 (m, 16H, -C(0)CH₂CH₂CH₂CH₂CH₂CH₂NH-), 3.62 (s, -OCH₂CH₂-), 6.00 (s, 8H, Ar), 6.25 (s, 8H, Ar), 7.27 (s, 8H, Ar).

8armPEG40k-C6-maleimide



¹H-NMR (CDCl₃, 300 MHz): δ (ppm) = 1.29 (m, 16H, -C(0)CH₂CH₂CH₂CH₂CH₂CH₂N-), 1.61 (m, 32H, -C(0)CH₂CH₂CH₂CH₂CH₂CH₂N-), 2.15 (m, 16H, -C(0)CH₂CH₂CH₂CH₂CH₂CH₂N-), 3.62 (s, -OCH₂CH₂-), 6.67 (s, 16H, -C(0)CH=CHC(0)-).

8armPEG40k-C₁₂-NH-Boc



¹H-NMR (CDCl₃, 300 MHz): δ (ppm) = 1.24 (m, 112H, -C(0)CH₂(CH₂)₇CH₂CH₂CH₂NH-),

1.42 (s, 72H, -NHC(0)OC(CH₃)₃), 1.43 (m, 16H,

-C(0)CH₂(CH₂)₇CH₂CH₂CH₂NH), 1.60 (m, 16H, -C(0)CH₂(CH₂)₇CH₂CH₂CH₂NH-

), 2.20 (m, 16H, -C(0)CH₂(CH₂)₇CH₂CH₂CH₂NH-), 3.08 (m, 16H,

-C(0)CH₂(CH₂)₇CH₂CH₂CH₂NH-), 3.62 (s, -OCH₂CH₂-).

8armPEG40k-C₁₂-furan



¹H-NMR (CDCl₃, 300 MHz): δ (ppm) = 1.23 (m, 112H, -C(0)CH₂(CH₂)₇CH₂CH₂CH₂NH-), 1.42 (m, 16H, -C(0)CH₂(CH₂)₇CH₂CH₂CH₂CH₂NH-), 1.60 (m, 16H, -C(0)CH₂(CH₂)₇CH₂CH₂CH₂NH-), 2.15 (m, 16H, -C(0)CH₂(CH₂)₇CH₂CH₂CH₂NH-), 2.47 (t, 16H, -C(0)CH₂CH₂Ar), 2.96 (t, 16H, -C(0)CH₂CH₂Ar), 3.20 (m, 16H, -C(0)CH₂(CH₂)₇CH₂CH₂CH₂CH₂NH-), 3.62 (s, -OCH₂CH₂-), 6.00 (s, 8H, Ar), 6.26 (s, 8H, Ar), 7.26 (s, 8H, Ar).

8armPEG40k-C₁₂-maleimide



¹H-NMR (CDCl₃, 300 MHz): δ (ppm) = 1.23 (m, 112H, -C(0)CH₂(CH₂)₇CH₂CH₂CH₂N-), 1.56 (m, 32H, -C(0)CH₂(CH₂)₇CH₂CH₂CH₂CH₂N-), 2.14 (m, 16H, -C(0)CH₂(CH₂)₇CH₂CH₂CH₂N-), 3.62 (s, -OCH₂CH₂-), 6.66 (s, 16H, -C(0)CH=CHC(0)-).