

Supplementary Information

Synthesis, Physicochemical and Photophysical Characterization of 4-(1-Pyrenyl)-butyl- α -D-mannopyranoside

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¹H NMR data

1-(4-(1-Pyrenyl)-butyl)-2,3,4,6-tetra-O-acetyl- α -D-mannopyranose

¹H NMR (300 MHz, MeOD) δ 1.74-1.83 (m, 2H, OCH₂CH₂), 1.89-1.95 (m, 2H, CH₂CH₂Py), 2.00 (s, 3H, OCCH₃), 2.01 (s, 3H, OCCH₃), 2.05 (s, 3H, OCCH₃), 2.15 (s, 3H, OCCH₃), 3.40 (t, 2H, CH₂Py), 3.46-3.54 (m, 1H, OCH₂CH₂), 3.70-3.77 (m, 1H, OCH₂CH₂), 3.92-3.99 (m, 1H, OCH₂CH₂), 4.02-4.08 (m, 1H, OCH₂CH₂), 4.20-4.27 (m, 1H, H3), 4.80 (s, 1H, H4), 5.23-5.26 (m, 1H, H2), 5.20 (s, 1H, H1), 5.33-5.38 (m, 1H, H5).

4-(1-Pyrenyl)-butyl- α -D-mannopyranoside

¹H NMR (300 MHz, MeOD) δ 1.73-1.83 (m, 2H, OCH₂CH₂), 1.90-1.99 (m, 2H, CH₂CH₂Py), 3.38 (t, 2H, CH₂Py), 3.46-3.73 (m, 5H, H2, H4, H5, OCH₂CH₂), 3.79-3.87 (m, 3H, H3, HOCH₂), 4.76 (s, 1H, H1), 7.89-8.36 (m, 9H, Py).

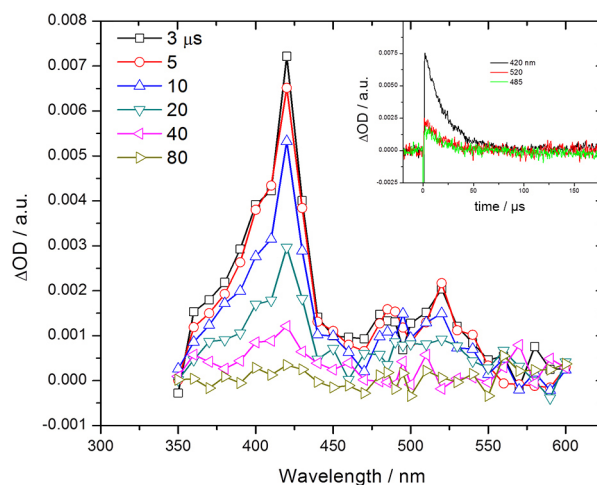


Figure S1. Transient absorption of Manpy dissolved in argon saturated benzene. Inset: kinetic traces at relevant wavelengths.

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