Supporting Information

Influence of nanoparticle shapes on cellular uptake of paclitaxel loaded nanoparticles in 2D and 3D cancer models

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Title Influence of nanoparticle shapes on cellular uptake of paclitaxel loaded fructose-based nanoparticles in 2D and 3D breast cancer models

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Fig. S1 TEM image of vesicles prepared from P(1-O-MAFru)_{31-b}-PMMA_{166} after storing for 2 months.
**Fig. S2** Paclitaxel loaded nanoparticles of different morphologies via self-assembly of Poly(1-O-MAFru)$_{35}$-b-PMMA$_{195}$ and Poly(1-O-MAFru)$_{35}$-b-PMMA$_{260}$ under different preparation condition.

**Fig. S3** SEC curves of Poly(1-O-MAipFru)$_{31}$, Poly(1-O-MAipFru)$_{35}$, Poly(1-O-MAFru)$_{31}$-b-PMMA$_{166}$, Poly(1-O-MAFru)$_{35}$-b-PMMA$_{195}$ and Poly(1-O-MAFru)$_{35}$-b-PMMA$_{260}$
Fig. S4. Fructose competition assay and fructose receptor blocking assay