

Electronic supplementary material (ESM):

1 10 20 30 37
KCNTATCAT QRLANFLVHS SNNFGAILSS TNVGSNTY-NH₂

Fig. S1 The primary sequence of IAPP with an amidated C-terminus and a disulfide bond between Cys2 and Cys7. Cys: cysteine.

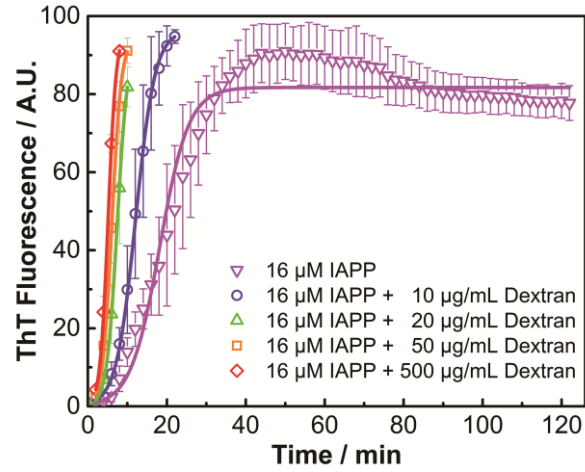


Fig. S2 Kinetics of 16 μM IAPP fibrillation in the absence or presence of 10, 20, 50 and 500 $\mu\text{g/mL}$ dextran (molecular weight 70,000) detected by ThT assay.

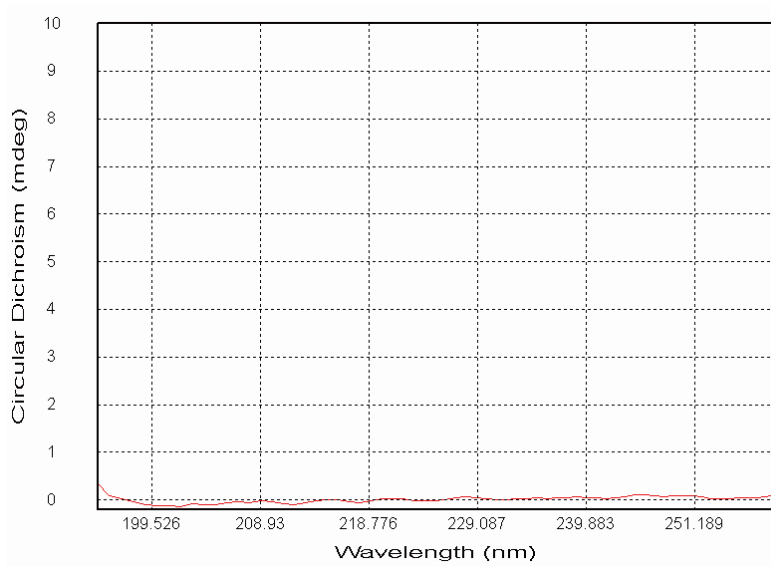


Fig. S3 CD spectrum of 50 µg/mL *FYGL*. The signal of phosphate buffer was subtracted.

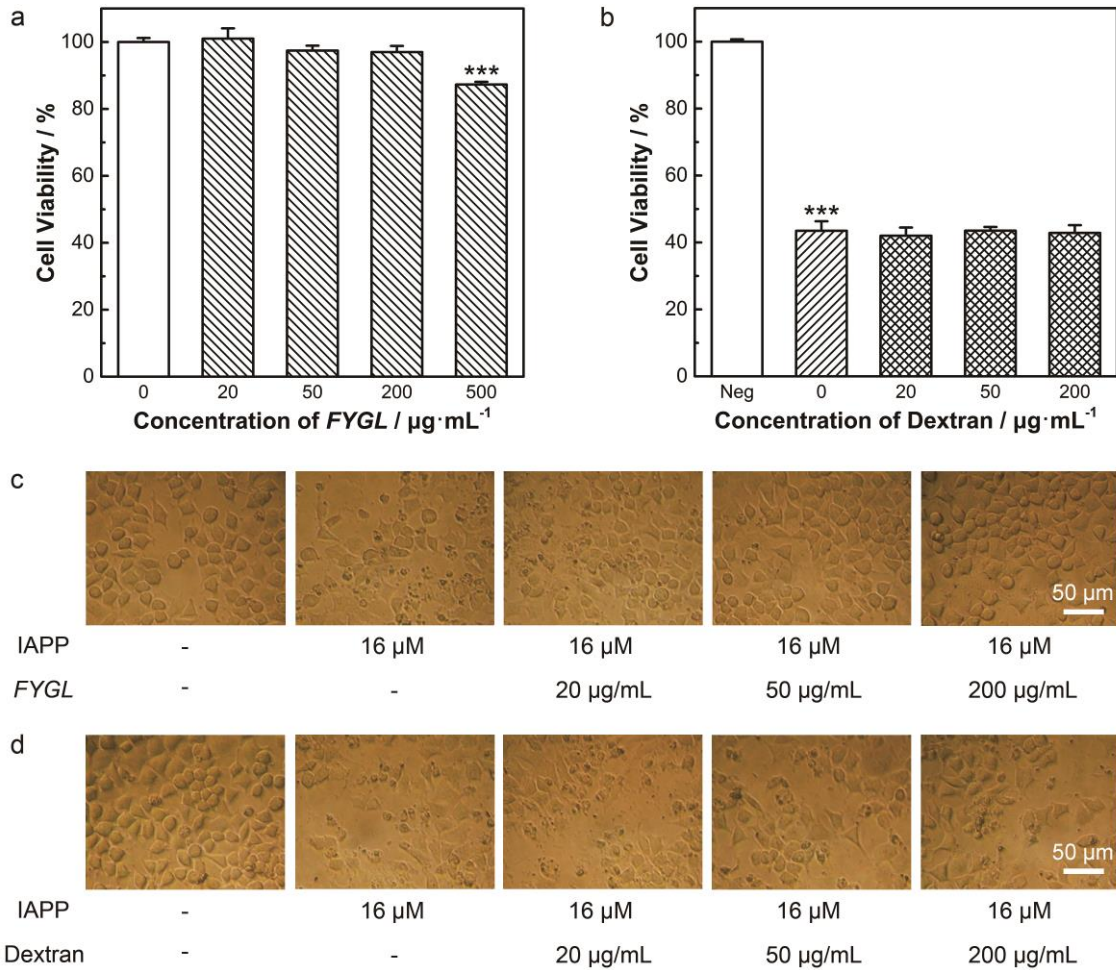


Fig. S4 (a) Cell viability of RIN5fm cells incubated with 0, 20, 50, 200 and 500 $\mu\text{g}/\text{mL}$ *FYGL* for 24 h. (b) Cell viability of RIN5fm cells incubated with 16 μM IAPP in the absence or presence of 20, 50 and 200 $\mu\text{g}/\text{mL}$ dextran for 24 h. *** $P < 0.01$ vs. negative control group. The morphology of RIN5fm cells incubated with IAPP in the absence or presence of 20, 50 or 200 $\mu\text{g}/\text{mL}$ *FYGL* (c) or linear dextran (d) observed by inverted microscope.