

## Supporting Information for

# Metal-Mediated Nanobody Assemblies as Potent Alleviator of Human Islet Amyloid Polypeptide Aggregation

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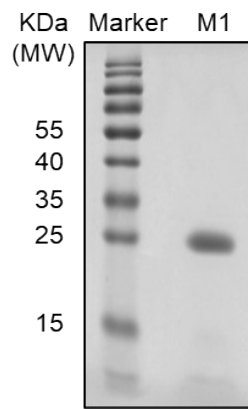
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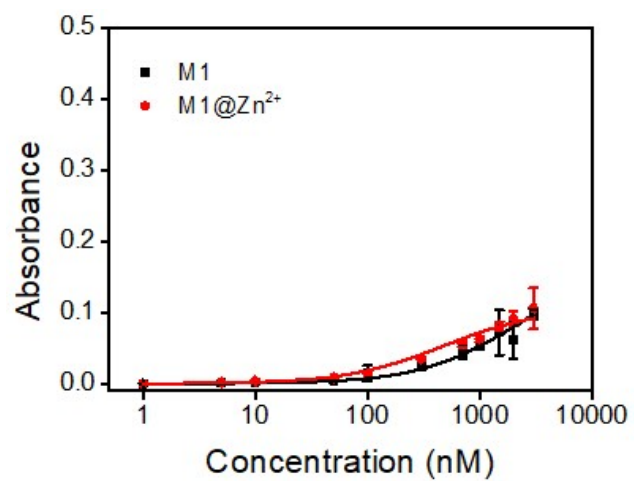
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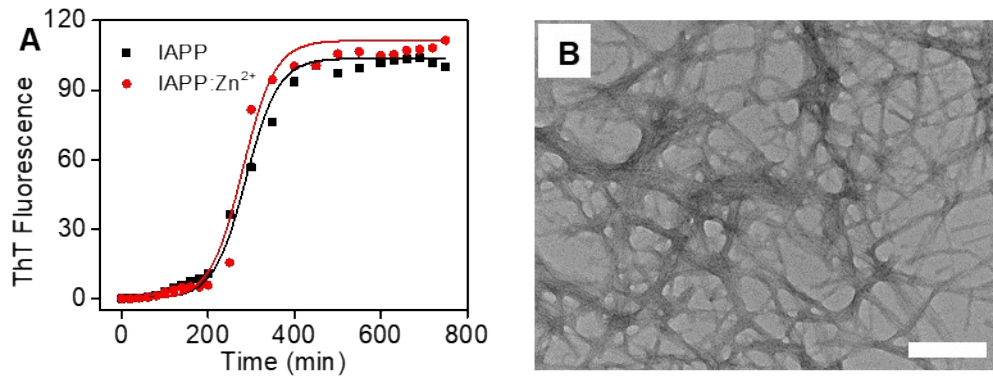
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**Figure S1.** SDS-PAGE analysis of M1.



**Figure S2.** The binding affinity of M1 and M1@Zn<sup>2+</sup> to IAPP monomers analyzed by ELISA assay. IAPP monomer concentration was 2.5  $\mu$ M.



**Figure S3.** The effect of Zn<sup>2+</sup> on IAPP aggregation at the equivalent Zn<sup>2+</sup> concentration as that of M1@Zn<sup>2+</sup>. (A) IAPP aggregation kinetics monitored by ThT fluorescence assays upon addition of Zn<sup>2+</sup>. The final concentration of IAPP was 16 μM. (B) TEM image of end-point products of IAPP aggregation upon addition of Zn<sup>2+</sup>. Scale bar: 200 nm

**Table S1.** Quantification of IAPP secondary structure by analyzing CD data.

Samples	$\alpha$ -Helix (%)	$\beta$ -Sheet (%)	Turns (%)	Random coils (%)
IAPP	3.2	39.4	20.3	37.1
IAPP:M1	3.2	38.7	19.9	38.1
IAPP:M1@Zn <sup>2+</sup>	5.8	18.5	19.7	55.9