

Electronic Supplementary Information (ESI)

Browning of White Adipocytes by Gold Nanoclusters Mediated Electromagnetic Induction Heating Hyperthermia

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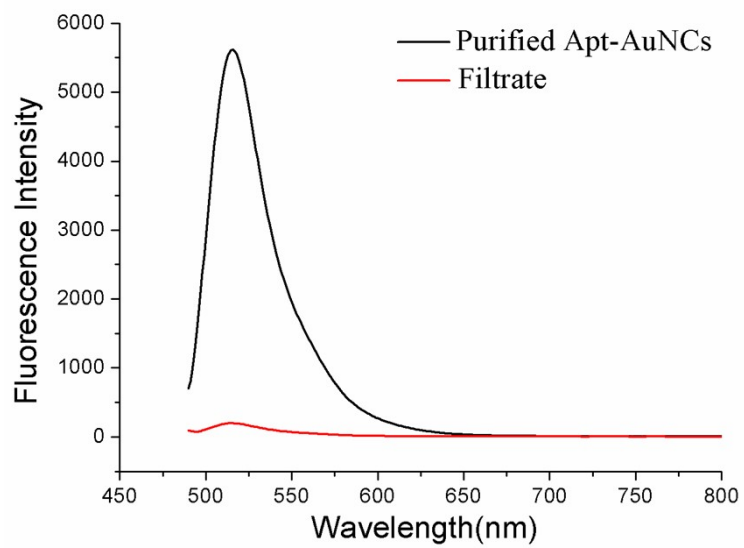


Figure S1. Fluorescence spectra of purified Apt-AuNCs and filtrate from centrifugation of the crude product ($\lambda_{\text{ex}} = 480 \text{ nm}$). Aptamer was labeled with FAM ($\lambda_{\text{ex}} = 480 \text{ nm}$, $\lambda_{\text{em}} = 520 \text{ nm}$).

Table S1. Information for MA-33 aptamer and two random ssDNA that used in modification of AuNCs.

Name	Sequence (5'-3')
MA-33 aptamer ^a	GTTACCGCGGTGAAGGGTGGATGTGTCTGGACGCTATATC
Random ssDNA-1	GCCCCTAGGGGGTGTTC AACAGGAGTATTATGATCCTTAG
Random ssDNA-2	TATGAATAGAGCATTGATGAGGAGGAGGGATAAAGGGGA

^a The sequence of MA-33 aptamer is from “Kim, E.Y., et al., Selection of aptamers for mature white adipocytes by cell SELEX using flow cytometry. PLoS One, 2014. **9**(5): p. e97747.”

Table S2. Information for the primer sequences used in real-time PCR analysis.

Gene	Forward Primer	Reverse Primer
UCP1	AGGCTTCCAGTACCATTAGGT	CTGAGTGAGGCAAAGCTGATTT
CIDEA	TGCTCTTCTGTATCGCCCAGT	GCCGTGTTAAGGAATCTGCTG
COX8b	TGTGGGGATCTCAGCCATAGT	AGTGGGCTAAGACCCATCCTG
FGF21	AGGATGGAACAGTGGTAGGCG	GGCTTTGACACCCAGGATTTG
CEBP α	TTGGTTTTGCTCTGATTCTTGC	CCACTTCATTTTCATTGGTCCTCT
CEBP β	AGATGTTCCCTGCGGGGTTG	CGAAACGGAAAAGGTTCTCAA
PGC-1 α	AGCCGTGACCACTGACAACGAG	GCTGCATGGTTCTGAGTGCTAAG
PRDM16	CCACCAGCGAGGACTTCAC	GGAGGACTCTCGTAGCTCGAA
PPAR γ	GTGCCAGTTTCGATCCGTAGA	GGCCAGCATCGTGTAGATGA
GAPDH	AGGTCGGTGTGAACGGATTTG	TGTAGACCATGTAGTTGAGGTCA