

1 **Supplementary tables**

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3 **Supplementary Table 1** – Time development of AgNPs size after dilution with deionized

4 water (DH) or simulated gastric fluid (SGF)

Time development of AgNPs size (nm)	DH	SGF (pH 1.2)
0 min	91.8 ± 2.9	156.5 ± 12.1
30 min	117.7 ± 17.0	247.8 ± 10.8
60 min	152.5 ± 40.8	266.5 ± 1.5
120 min	139.5 ± 18.7	341.0 ± 8.1

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Data are expressed as mean ± standard error of the mean

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9 **Supplementary Table 2** – Primers used for real-time PCR analyses.

<i>Gene nomenclature (RGD)</i>	<i>NCBI Reference Sequence</i>	<i>Primer sequence (5' - 3')</i>
<i>Ar</i> (Androgen receptor)	NM_012502.1	F: GCCATGGGTTGGCGGTCCTT R: AGGTGCCTCATCCTCACGCACT
<i>Esr1</i> (Estrogen receptor 1)	NM_012689.1	F: CCATATCCGGCACATGAGTA R: TGAAGACGATGAGCATCCAG
<i>Esr2</i> (Estrogen receptor 2)	NM_012754.1	F: CTCACGTCAGGCACATCAGT R: TGTGAGCATTACAGCATCTCC
<i>Gper1</i> (G protein-coupled estrogen receptor 1)	NM_133573.1	F: CCCTTGACAGGCCACATAGT R: CTCCGTGCTGTCTGGTATGA
<i>Gnrh1</i> (Gonadotropin releasing hormone 1)	NM_012767.2	F: AGGAGCTCTGGAACGTCTGAT R: AGCGTCAATGTCACACTCGG
<i>Gnrhr</i> (Gonadotropin releasing hormone receptor)	NM_031038.3	F: GCTGCCTGTTTCATCATCCCT R: CTGTAGTTTGCGTGGGTCCT
<i>Lhb</i> (Luteinizing hormone beta polypeptide)	NM_012858.2	F: ATGAGTTCTGCCAGTCTGC R: GTGGGTGGGCATCAGAAGAG
<i>Fshb</i> (Follicle stimulating hormone beta subunit)	NM_001007597.1	F: AAGTCGATCCAGCTTTGCAT R: GTCCCAGGCCTCTTACAGTG
<i>Lhcgr</i> (Luteinizing hormone/choriogonadotropin receptor)	NM_012978.1	F: AGTGGAGCCTTCCAGGGGGC R: AGGAAGACAGGGCGATGAGCGT
<i>Fshr</i> (Follicle stimulating hormone receptor)	NM_199237.1	F: TCACTGGCTGTGTCATTGCTC R: GAGATCTCTATTTTCTCCAGGTCTC
<i>Inhbb</i> (Inhibin beta B subunit)	NM_080771.1	F: GAGCGCGTCTCTGAGATCAT R: GAAGAAGTACAGGCGGACCC
<i>Cyp19a1</i> (cytochrome P450, family 19, subfamily a, polypeptide 1)	NM_017085.2	F: CGTCATGTTGCTTCTCATCG R: TACCGCAGGCTCTCGTTAAT
<i>Rpl19</i> (Ribosomal protein L19)	NM_031103.1	F: CAATGAAACCAACGAAATCG R: TCAGGCCATCTTTGATCAGCT

10 F, forward; R, reverse