Electronic Supplementary Material (ESI) for Food & Function.

Vanillin Prevents the Growth of Endometriotic Lesions through Anti-inflammatory and Antioxidant Pathways in Mouse Model

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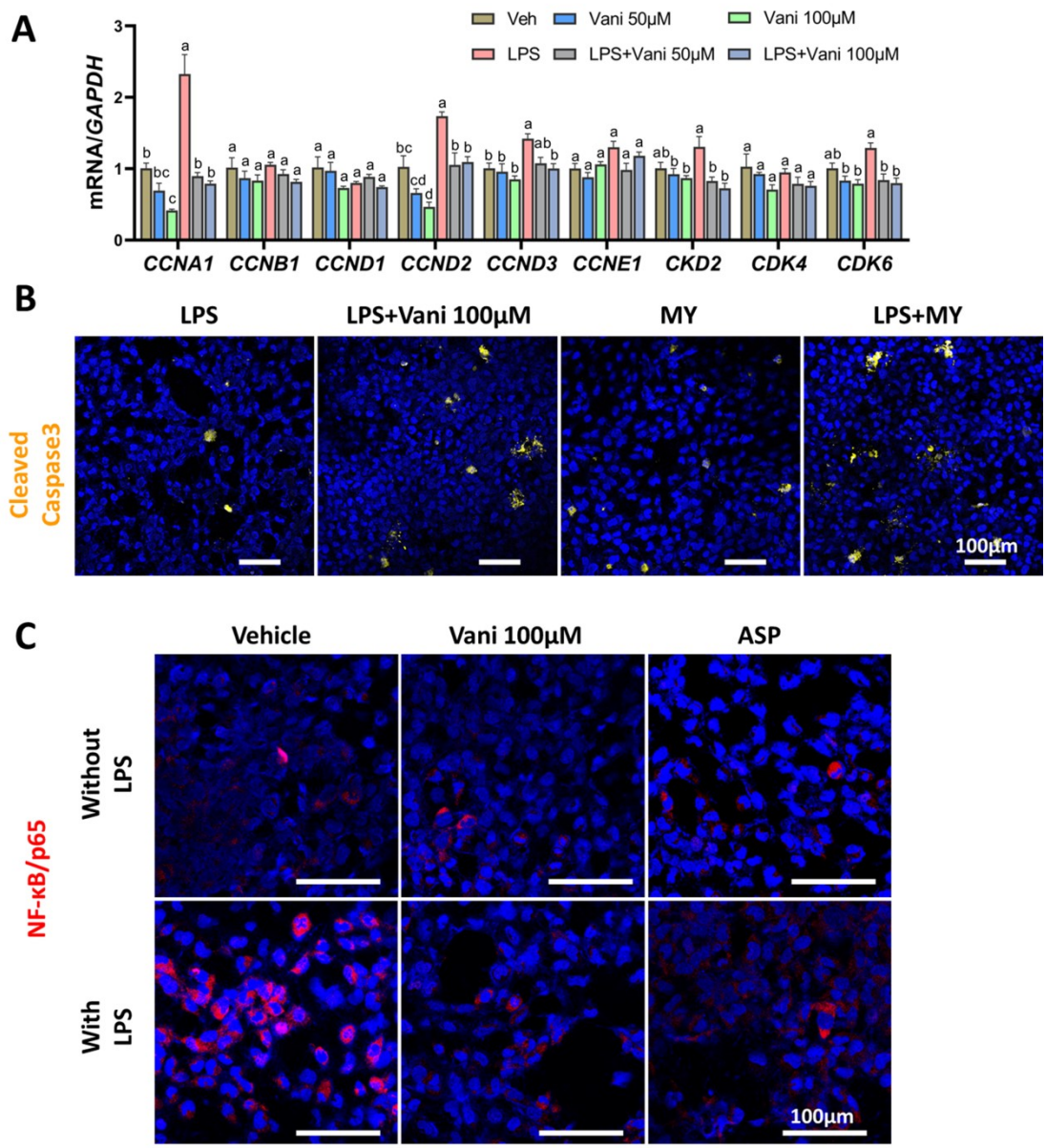
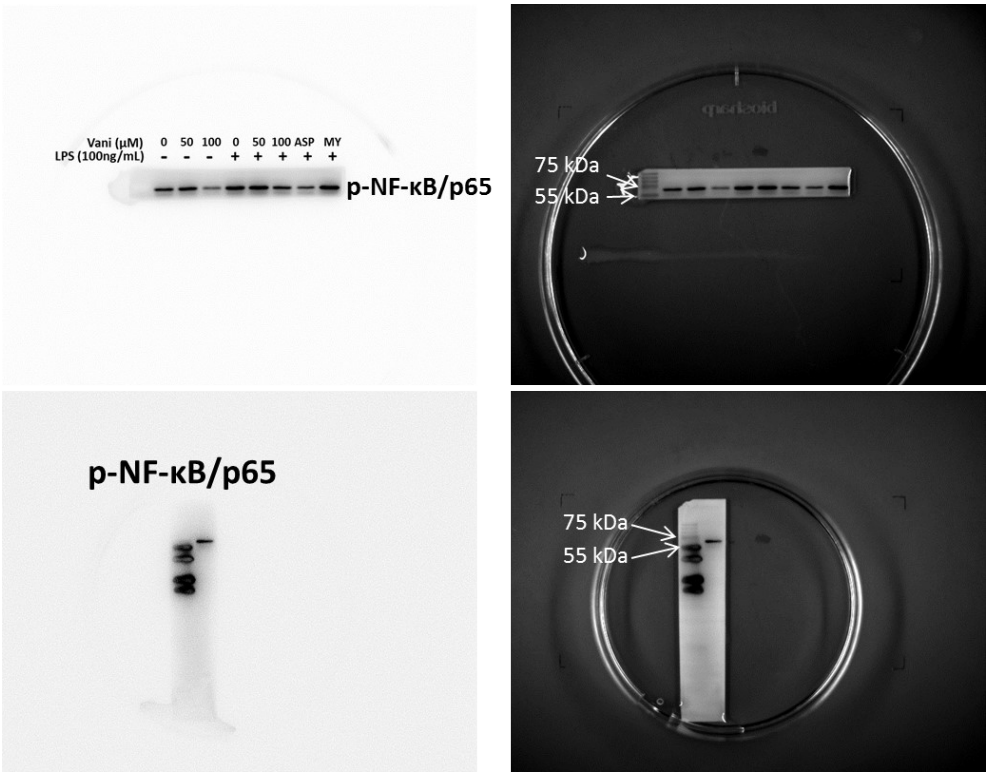


Figure S1. (**A**) The mRNA expression of cyclins and cyclins dependent kinases in 11Z cells after LPS and Vanillin treatment. (**B**) The Immunofluorescence of Cleaved Caspase3 in 11Z, bar = 100 μm.. (**C**) The Immunofluorescence of NF-κB/p65 in 11Z, bar = 100 μm.. Data are from at least three independent experiments. Veh, vehicle (0.1% DMSO); Vani, vanillin; LPS, lipopolysaccharide; ASP, aspirin 100 μM; MY, myricetin 50 μM. Significant difference among groups is displayed as different letters ($p < 0.05$).



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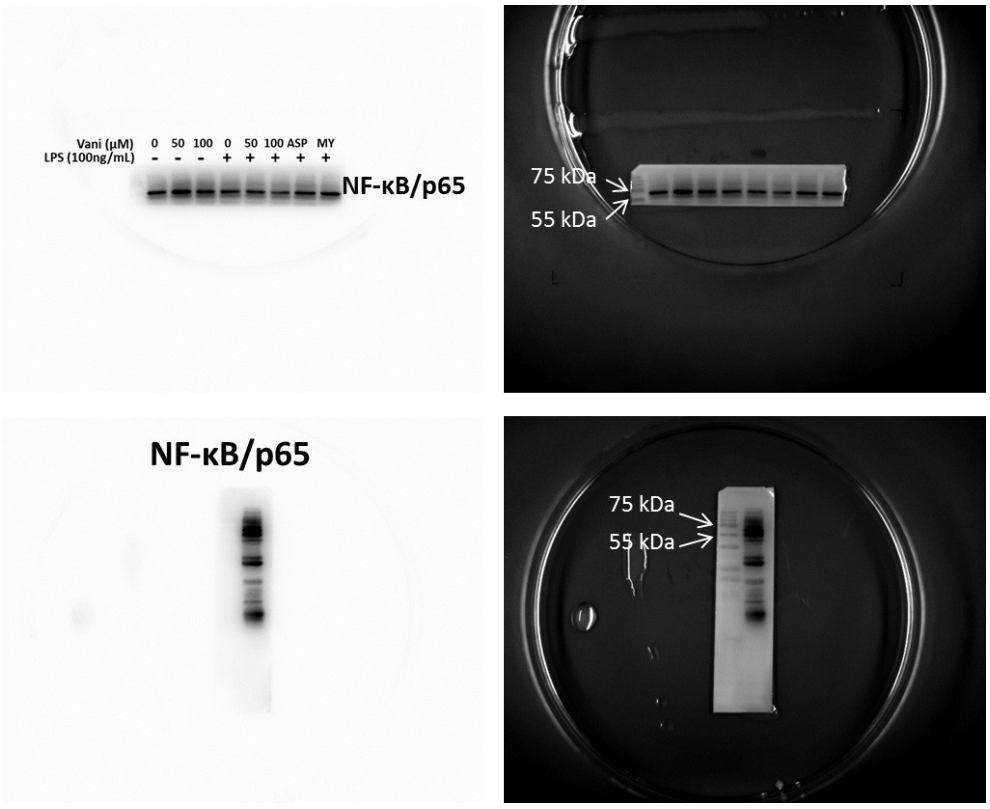

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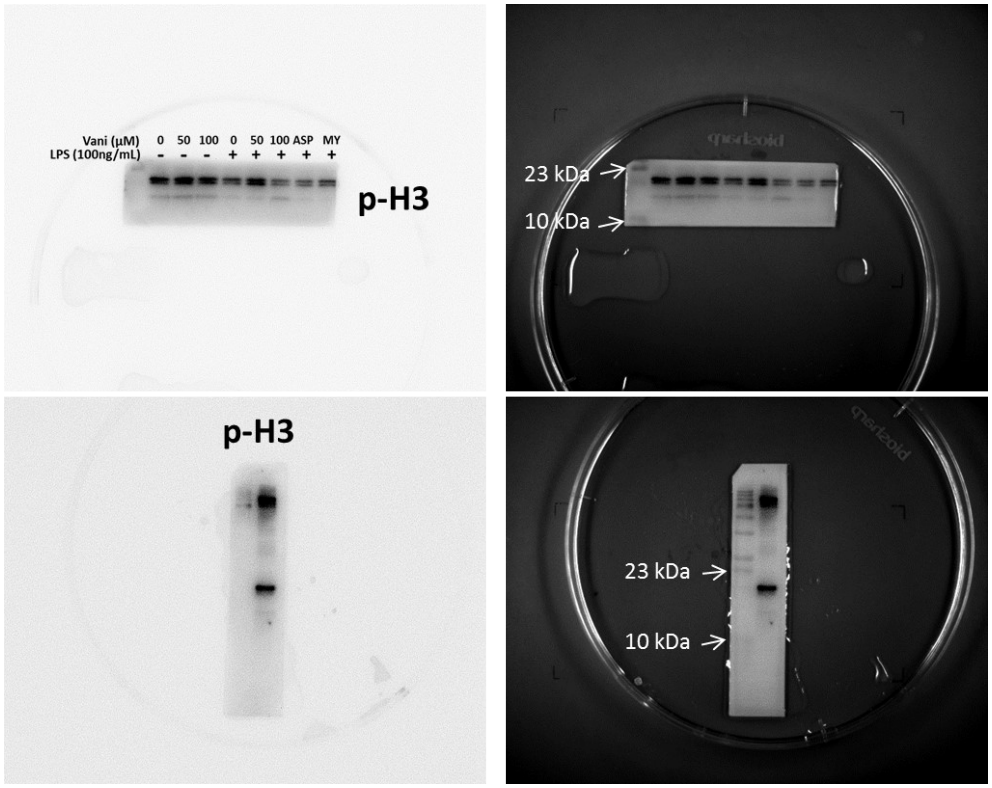
12 **Figure S2. The native image of western blot of p65 and p-p65.**



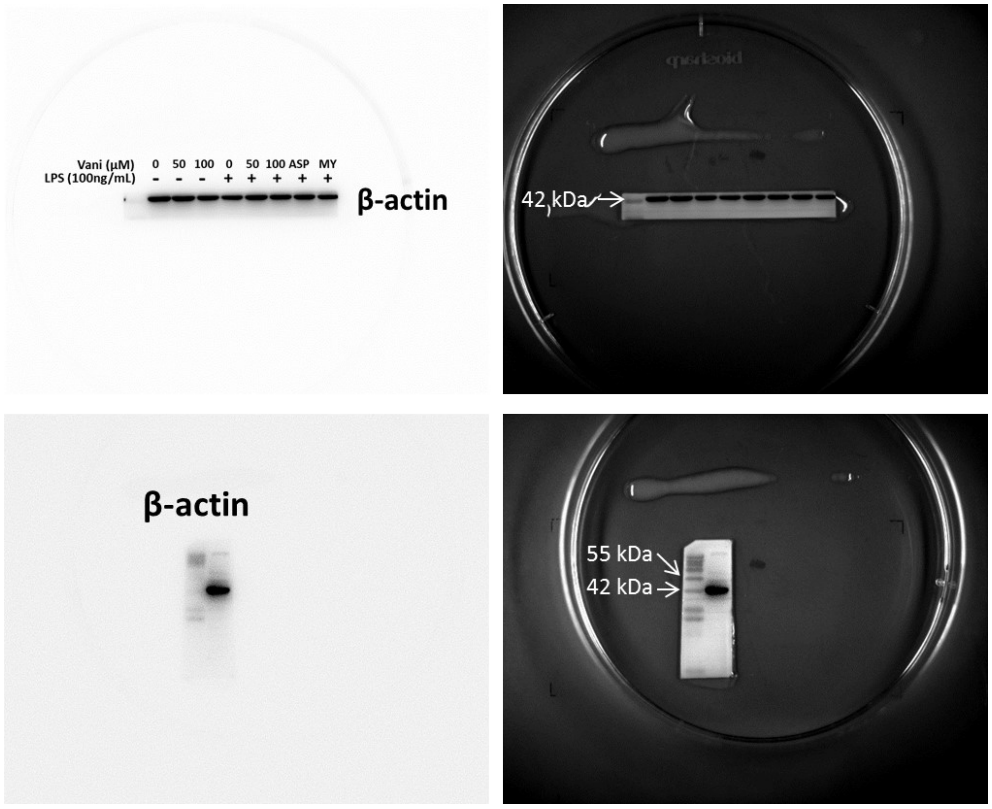


Figure S3. The native image of western blot of p-H3 and β-actin.

Table S1. Primary antibodies.

Antibodies	Company	Application
Anit-Ki67	Axl-bio	IHC&IF (1:800)
Anit-Cleaved Caspase3	Cell Signaling Technology	IHC&IF (1:300)
Anti-F4/80	Abcam	IF (1:200)
Anti-Ly6G	Santa Cruz	IF (1:200)
Anit-Tom20	Cell Signaling Technology	IHC (1:1000)
Anit-COX IV	Cell Signaling Technology	IHC (1:100)
Anit-NF-kappaB /p65	Cell Signaling Technology	IHC&IF (1:600) WB(1:1000)
Anit-p-NF-kappaB /p65	Cell Signaling Technology	WB(1:1000)
Anti-β-actin	Cell Signaling Technology	WB(1:1000)
Anti-p-H3	Abcam	WB(1:5000)
Anit-ERα	Abcam	IHC (1:5000)
Anit-PGR	Invitrogen	IHC (1:200)

IHC, immunohistochemistry; IF, immunofluorescence; WB, Western blot.

Table S2. Primer list for qPCR

Gene Symbol	Primer sequence（5` - 3`）
Mouse Rpl19	F:TCATGGAGCACATCCACAAGCTGA R: CGCTTTCGTGCTTCCTTGGTCTTA
Mouse Esr1	F: GGAAGCTCCTGTTTGCTCCT R: AACCGACTTGACGTAGCCAG
Mouse Esr2	F: AGTGCGTGGAAGGGATTCTG R: GTCAGCTTCCGGCTACTCTC
Mouse Ltf	F: CAGCAGGATGTGATAGCCACAA R: CACTGATCACACTTGCGCTTCT
Mouse Muc1	F: TTCCAACCCAGGACACCTAC R: ATTACCTGCCGAAACCTCCT
Mouse Muc4	F: AATGTTCCTGCCTATACTGCC R: TTGTATGGTTCCTGGGTCAC
Mouse Pgr	F: GTGGAAAAGCTATGTGCGCC R: CAGTGGGGTTCAGGACCTTC
Mouse Ihh	F: CCCAACTACAATCCCGACATC R: TCACCCGCAGTTTCACAC
Mouse Hoxa10	F: GAAAACAGTAAAGCTTCGCCG R: GAAACTCCTTCTCCAGCTCC
Mouse Areg	F: AGATACATCGAGAACCTGGAGG R: AGAGACAAAGATAGTGACAGCTAC
Mouse Hand2	F: TCGCCTACCTCATGGATCTGCT R: TCTTGTCGTTGCTGCTCACTGT
Mouse Tnfa	F: AGGCACTCCCCCAAAAGATG R: TGAGGGTCTGGGCCATAGAA
Mouse Ifng	F: AGGAACTGGCAAAAGGATGGT R: GTTGCTGATGGCCTGATTGT

Mouse Il6	F: TCTTGGGACTGATGCTGGTGACA R: AGCCTCCGACTTGTGAAGTGGTA
Mouse Il1b	F: TGGTGTGTGACGTTCCCATT R: GCCCAAGGCCACAGGTATTT
Mouse Ki67	F: CCAGCTGCCTGTAGTGTCAA R: CCATGTCTCAGCCTCACAGG
Mouse Bad	F: CTTGAGGAAGTCCGATCCCG R: GCTCACTCGGCTCAAACTCT
Mouse Bcl2	F: TCGTCGCTACCGTCGTGACTT R: TGAAGAGTTCCTCCACCACCGT
Mouse Sod1	F: ATGGCGATGAAAGCGGTGTG R: TTGCCTTCTGCTCGAAGTGG
Mouse Sod2	F: ACGTGAACAATCTCAACGCC R: TCCTTTGGGTTCTCCACCAC
Mouse Gpx1	F: ACACCAGGAGAATGGCAAGAA R: TCCGCAGGAAGGTAAAGAGC
Mouse Nlrp3	F: TATCCACTGCCGAGAGGTGA R: TCTTGCACACTGGTGGGTTT
Mouse Prl8a2	F: AACCTCACTTCTCAGGGGCA R: GAGCAGCCATTCTCTCCTGTT
Mouse Prl3c1	F: ATTGACTCAAGCACGCACCT R: GTGACGAGAAGAGGAAAGCAGA
Mouse Bmp2	F: ACACAGGGACACACCAACCAT R: TGTGACCAGCTGTGTTCATCTTG
Mouse Wnt4	F: TCGTCTTCGCCGTGTTCT R: CTGCACCTGCCTCTGGAT
Human GAPDH	F: GAAGGTGAAGGTCGGAGT R: GATGGCAACAATATCCACTT

Human IL6	F: CCTTCGGTCCAGTTGCCTTCT R: TTGGGTCAGGGGTGGTTATTG
Human IL1B	F: AGCTCGCCAGTGAAATGATG R: CTTGCTGTAGTGGTGGTCGG
Human TNFA	F: CATCGCCGTCTCCTACCA R: AGTCGGTCACCCTTCTCC
Human TLR4	F: CATTGGTGTGTCGGTCCTCA R: GGGTCTTCTCCACCTTCTGC
Human BCL2	F: CTTTGAGTTCGGTGGGGTCA R: GAAATCAAACAGAGGCCGCA
Human BAX	F: TCATGGGCTGGACATTGGAC R:GCGTCCCAAAGTAGGAGAGG
Human NLRP3	F: GGGACCCAGGGATGAGAGTGTT R: TGCTGCTGAGGACCAAGGAGAT
Human CCNA1	F: GGGCTCCCAGATTTCGTCTT R: CTGTAGCCAGCACAACTCCA
Human CCNB1	F: GCACTTCCTTCGGAGAGCAT R: TGTTCTTGACAGTCCATTCACCA
Human CCND1	F: CAGATCATCCGCAAACACGC R: AAGTTGTTGGGGCTCCTCAG
Human CCND2	F: AGAAGCTGTCTCTGATCCGC R: GCTCAGTCAGGGCATCACAA
Human CCND3	F: TGCACATGATTTCCTGGCCT R: CTGTAGCACAGAGGGCCAAA
Human CCNE1	F: AGAGGAAGGCAAACGTGACC R: TATTGTCCCAAGGCTGGCTC
Human CDK2	F: GACACGCTGCTGGATGTCA R: CAGAAAGCTAGGCCCTGGAG

Human CDK4	F: TTGTGGCCCTCAAGAGTGTG R: ACCTTGATCTCCCGGTCAGT
Human CDK6	F: ACAGAGCACCCGAAGTCTTG R: CTGGGAGTCCAATCACGTCC