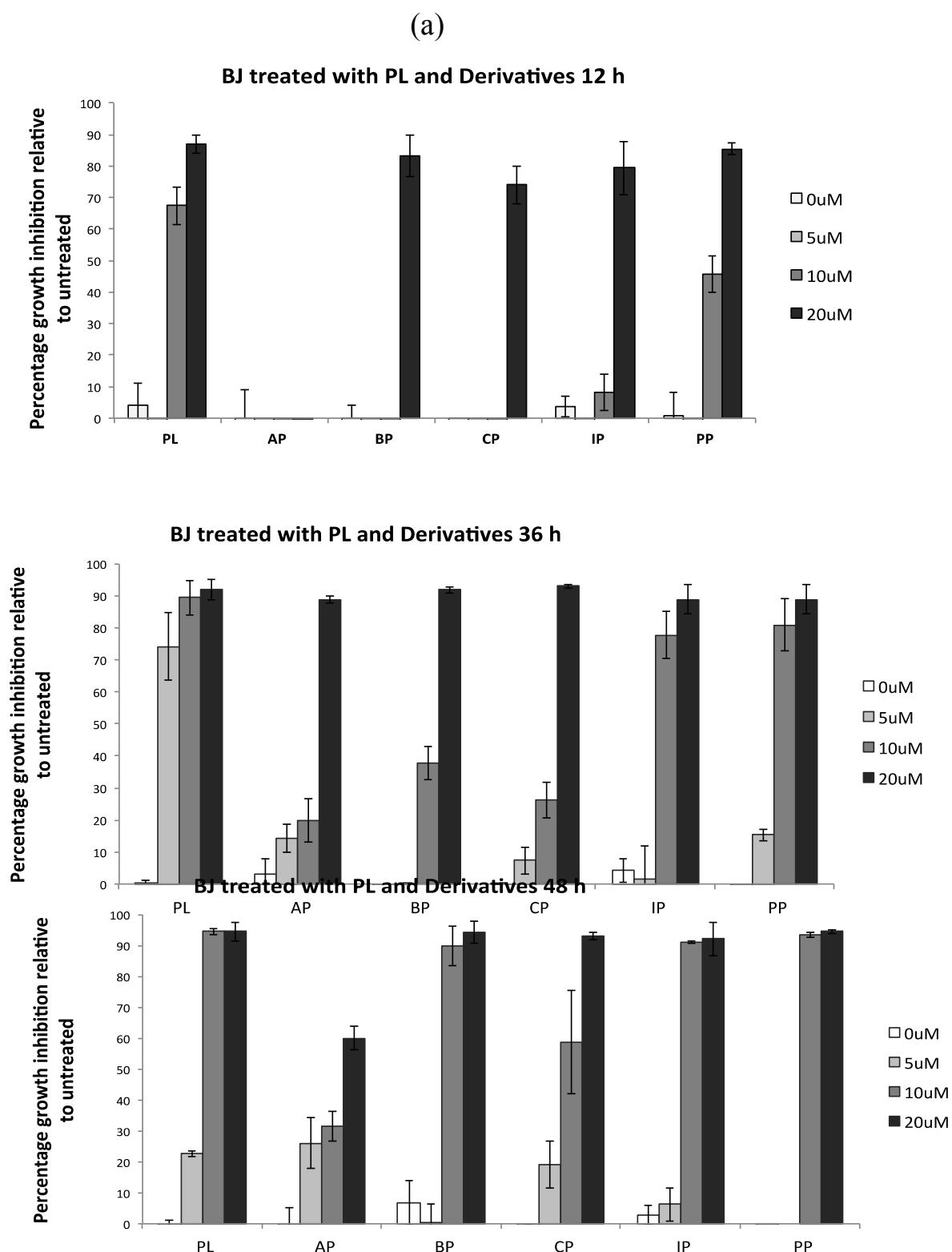


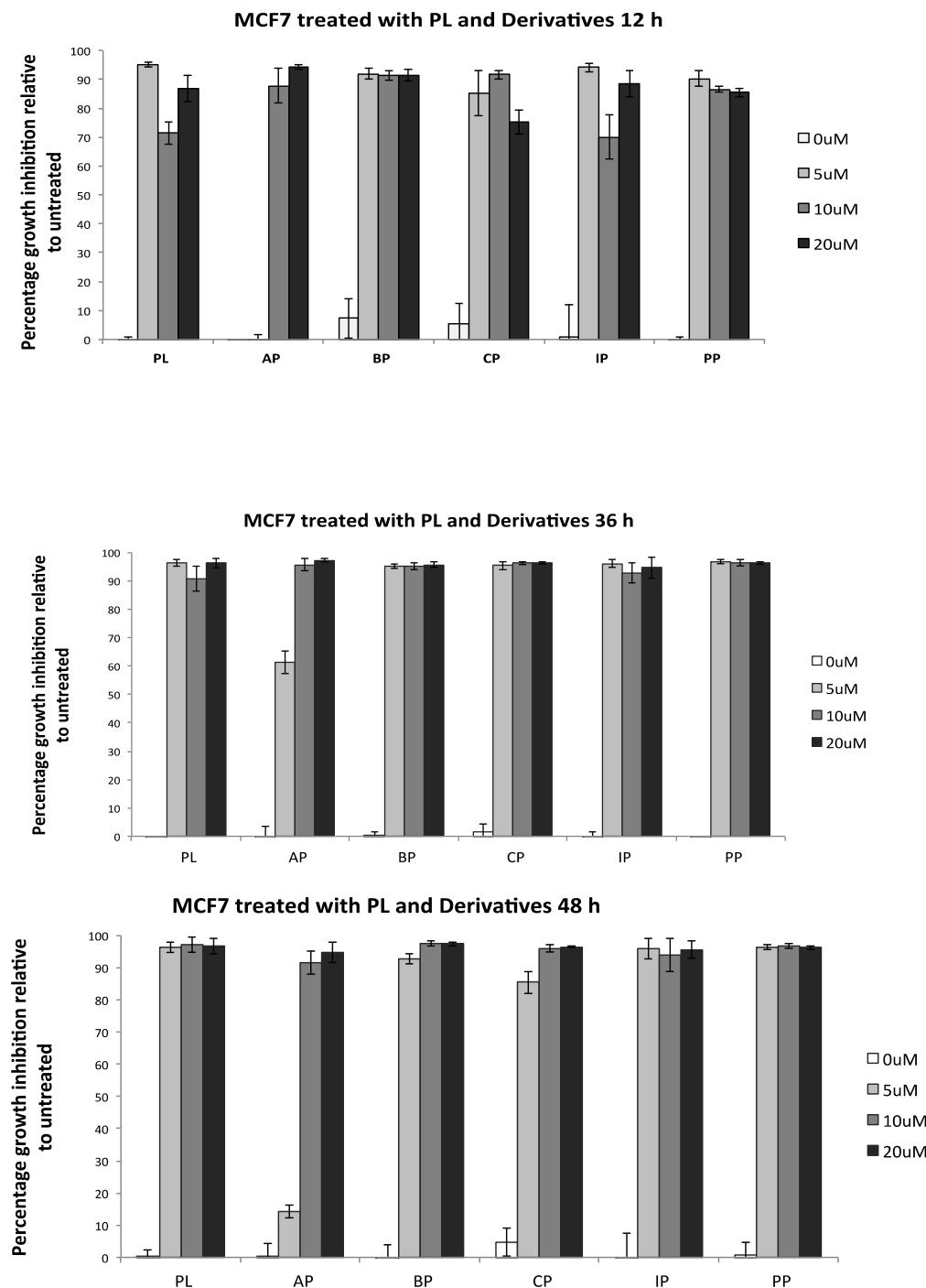
SUPPLEMENTARY MATERIAL

Supplementary File 1. The Sequences of TaqMan Primers, Probes and ID's Gene Expression Assays Used for Real Time PCR Analysis in the Present Study

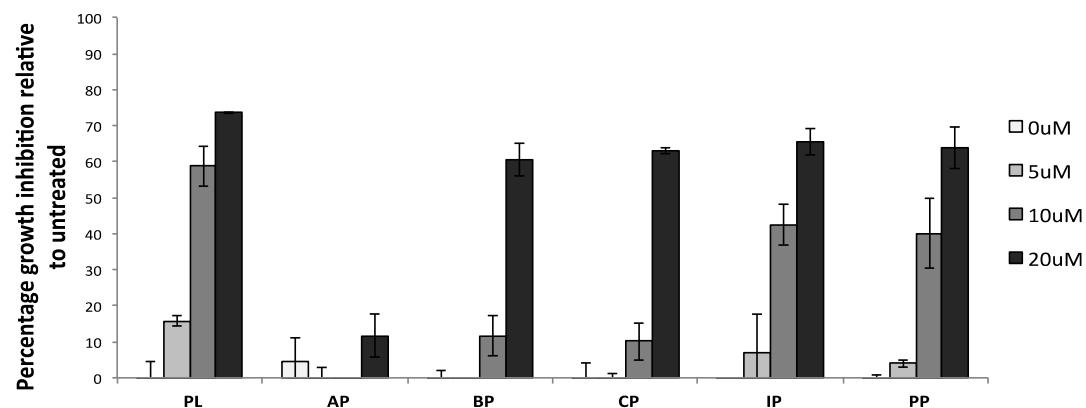
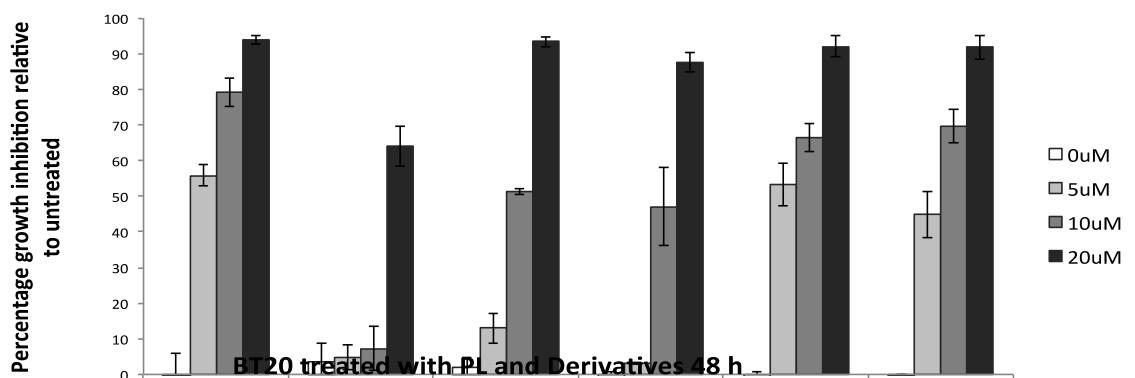
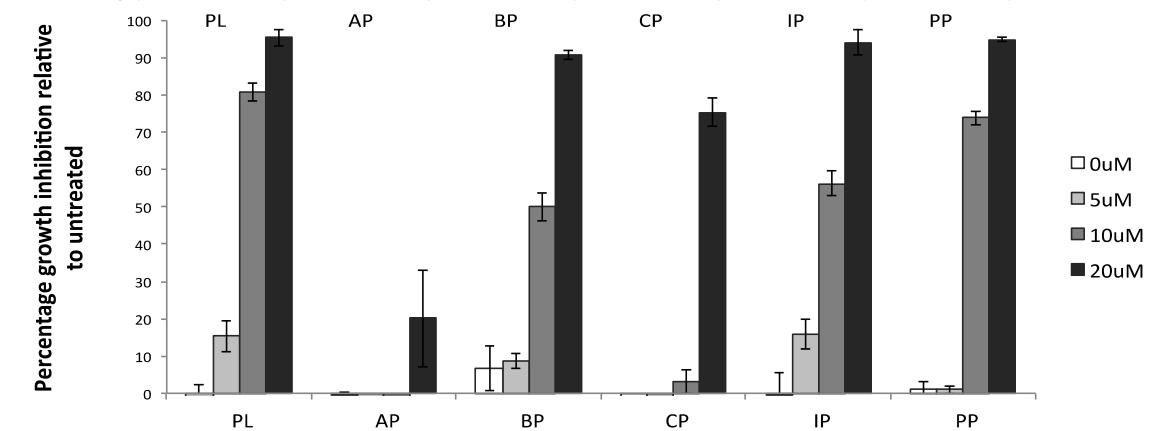
Target	Sequence
p53 Forward Primer	5'-GCCCCAGGGAGCACTA-3'
p53 Reverse Primer	5'-GGGAGAGGAGCTGGTGTG-3'
p53 Probe	5'-TTGGCAGTGCTCGCT-3'
Bax Forward primer	5'-TCCCCCGAGAGGTCTTT-3'
Bax Reverse primer	5'-CGGCCCAGTTGAAGTTG-3'
Bax Probe	5'-TCAGAAAACATGTCAGCTGCCACTCGG-3'
Mdm2 Forward primer	5'-TTACCCAGGCTGGAGTGCAG-3'
Mdm2 Reverse primer	5'-GAGAACATGGTGCAGACCCG-3'
Mdm2 Probe	5'-TGGCTACTGCAAGCTCTGCCCTC-3'
Bcl2 Forward primer	5'-CATGTGTGGAGAGCGTCAA-3'
Bcl2 Reverse primer	5'-GCCGGITCAGGTACTCAGTCA-3'
Bcl2 Probe	5'-CCTGGTGGACAACATGCCCTGT-3'
NF-kB Forward Primer	5'-AGCACAGATAACCACCAAGACCC-3'
NF-k B Reverse Primer	5'-CCAGGGAGATGCGCACTG-3'
NF-k B Probe	5'-CATCAAGATCAATGGCTACACAGGACCAAGG-3'
GAPDH Forward primer	5'-AGCTCAAGATCATCAGCAATG-3'
GAPDH Reverse primer	5'-ATGGACTGTGGTCATGAGTCCTT-3'
GAPDH Probe	5'-CCAATGCTTAGCACCCCTGGCC-3'
Casp7 Taqman Assay	ID: Hs00169152_m1
Bad Taqman Assay	ID: Hs00188930_m1



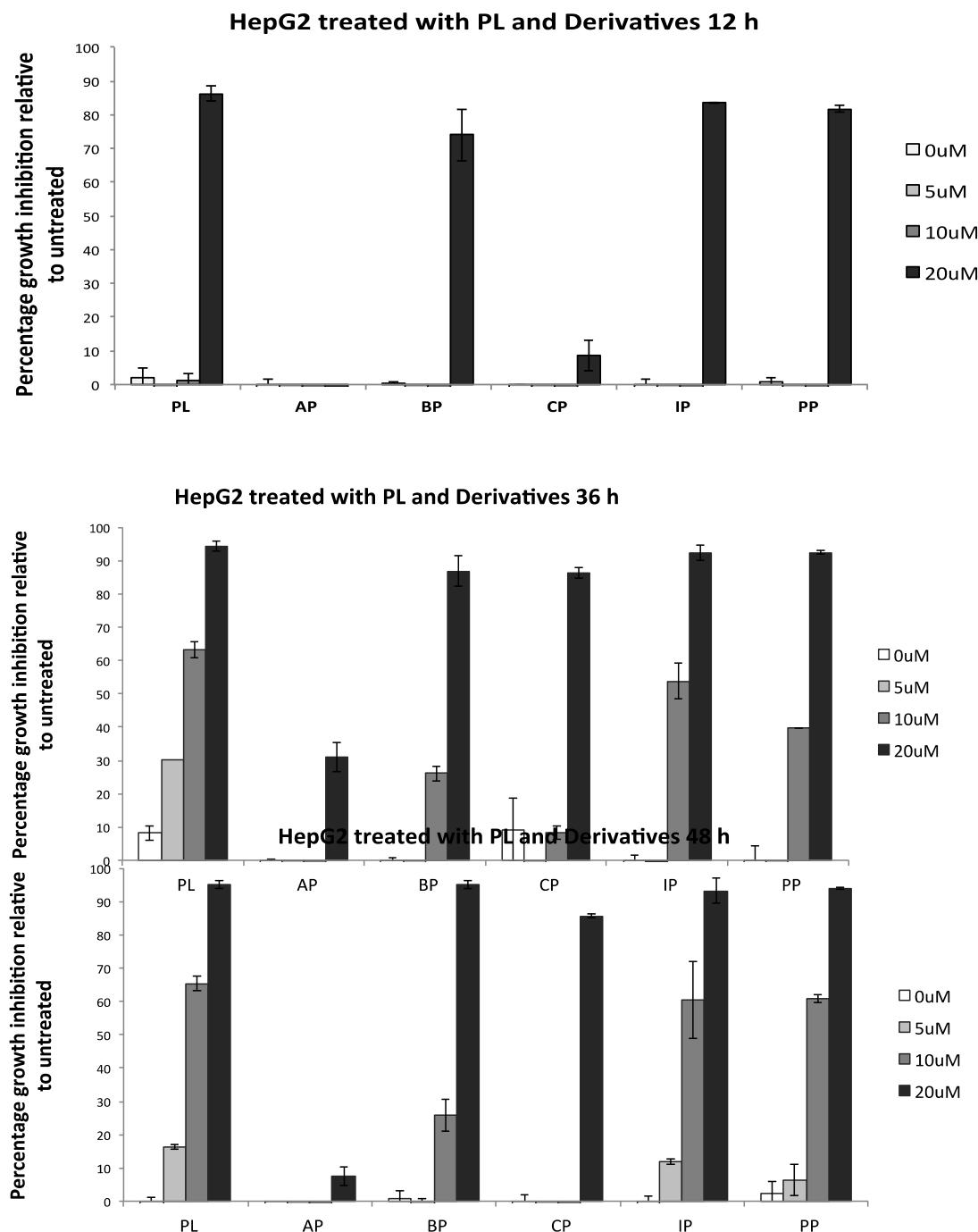
(b)

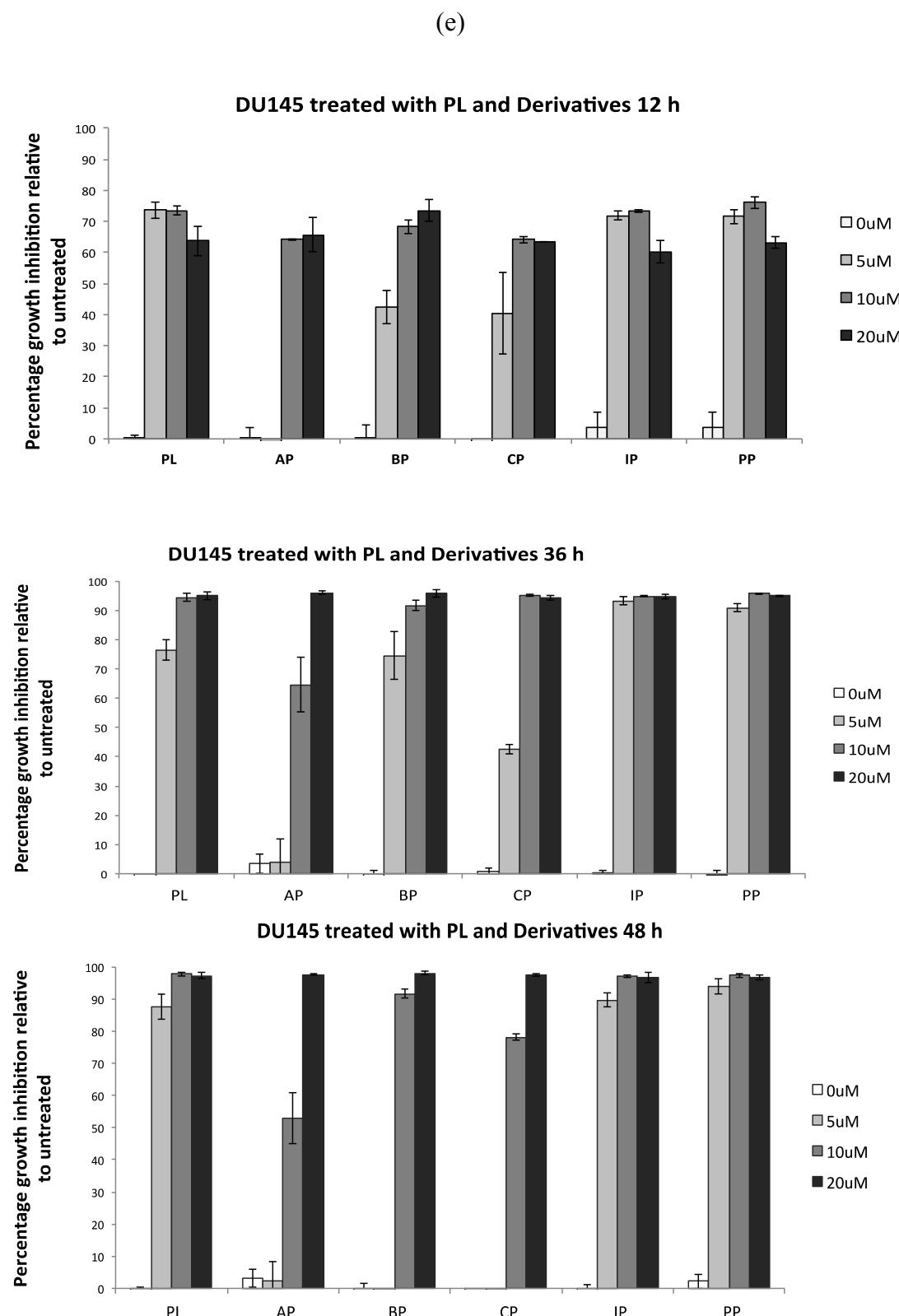


(c)

BT20 treated with PL and Derivatives 12 h**BT20 treated with PL and Derivatives 36 h****BT20 treated with PL and Derivatives 48 h**

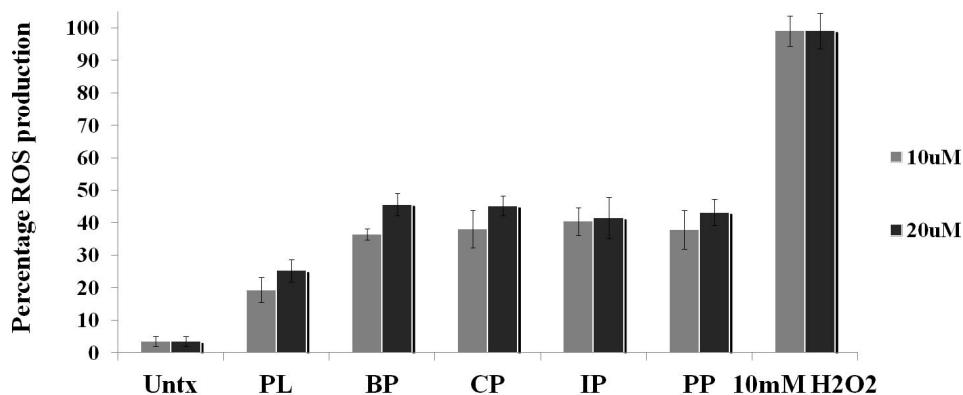
(d)



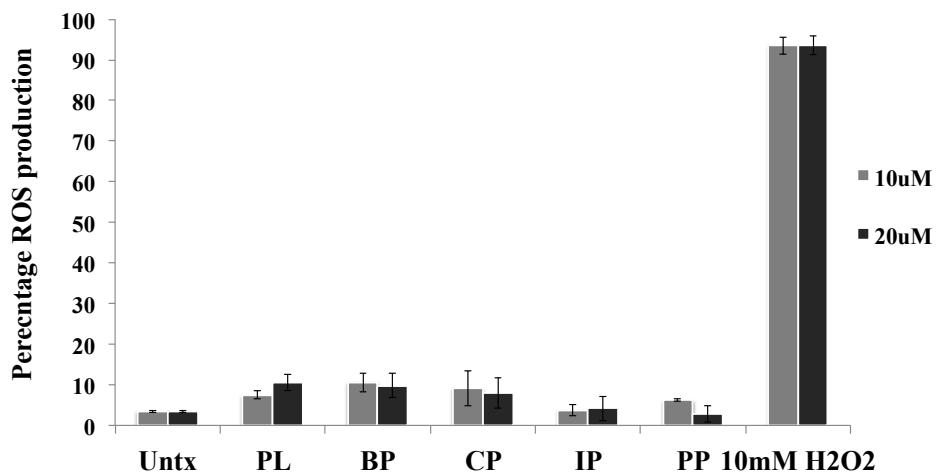


Supplementary file 2: PL and derivatives (AP, BP, CP, IP, and PP) induced growth inhibition in cancer and normal cells within 12, 36 and 48 h of treatment (read 0 μ M as untreated). Growth inhibition was assessed using MTT assay. Data are mean \pm S.D. (n=3). Growth inhibition at 12, 36 and 48 h for (a) BJ cells, (b) MCF-7 cells, (c) BT20 cells, (d) HepG2 cells, (e) DU145 cells and (f) HeLa cells.

(a)

ROS activity in MCF-7 Cells treated with PL and Derivatives for 2 h

(b)

ROS activity in BT20 treated with PL and Derivatives for 2 h

Supplementary file 3: PL and derivatives (BP, CP, IP, and PP) induced ROS production in cancer cells, (a) MCF-7 cells and (b) BT20 cells, within 2 h of treatment (read Untx as untreated). ROS production was assessed using DCFDA assay. Data are mean \pm S.D. (n=3).