

Thymoquinone synergizes gemcitabine anti-breast cancer activity via modulating its apoptotic and autophagic activities

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Supp. Table 1. The effect of TQ, GCB and their combination on cell cycle distribution of MCF-7 cell line after 24 h treatment

Phase	Control	TQ	GCB	GCB+TQ
Go / G1	38.1±3.0%	63.9±0.7%	67.7±1.2%	62.1±1.0%
S	44.5±2.5%	44.4±0.3%	24.6±1.5%	23.3±0.7%
G2 / M	17.5±2.3%	18.7±0.3%	7.6±0.9%	14.5±1.0%
Pre-G	4.7±1.5%	3.3±0.2%	8.8±0.6%	7.2±1.2%

Supp. Table 2. The effect of TQ, GCB and their combination on cell cycle distribution of MCF-7 cell line after 48 h treatment

Phase	Control	TQ	GCB	GCB+TQ
G₀ / G₁	46.1±3.9%	43.2±6.9%	26.4±3.6%	22.4±2.2%
S	38.0±1.9%	40.4±2.9%	50.4±3.2%	48.2±4.7%
G₂ / M	15.9±2.0%	16.4±3.9%	23.2±3.0%	29.4±3.0%
Pre-G	2.5±0.6%	2.5±0.6%	23.1±3.4%	49.3±4.2%

Supp. Table 3. The effect of TQ, GCB and their combination on cell cycle distribution of T47D cell line after 24 h treatment

Phase	Control	TQ	GCB	GCB+TQ
G₀ / G₁	53.2±0.6%	47.7±3.5%	60.5±1.8%	58.9±3.9%
S	27.5±1.9%	32.4±4.1%	27.3±1.7%	33.1±4.6%
G₂ / M	19.4±1.7%	19.9±2.2%	12.2±0.6%	8.0±1.5%
Pre-G	8.5±0.3%	10.8±0.2%	28.9±0.9%	57.1±4.4%

Supp. Table 4. The effect of TQ, GCB and their combination on cell cycle distribution of T47D cell line after 24 h treatment

Phase	Control	TQ	GCB	GCB+TQ
Go / G1	54.3±2.7%	52.7±1.4%	36.5±3.4%	32.1±3.3%
S	29.1±1.7%	38.4±0.2%	44.3±2.5%	49.9±1.3%
G2 / M	16.6±1.0%	8.8±1.2%	19.2±1.7%	18.1±3.6%
Pre-G	12.6±1.4%	67.6±5.2%	15.1±1.1%	64.5±1.0%