Supporting Information

For

Selenadiazole Derivatives Antagonize Hyperglycemia-Induced Drug Resistance in Breast Cancer Cells by Activation of AMPK Pathway

Results

Table S1. Cytotoxic effects of antitumor drugs on MCF-7 cells for 48 h incubation.

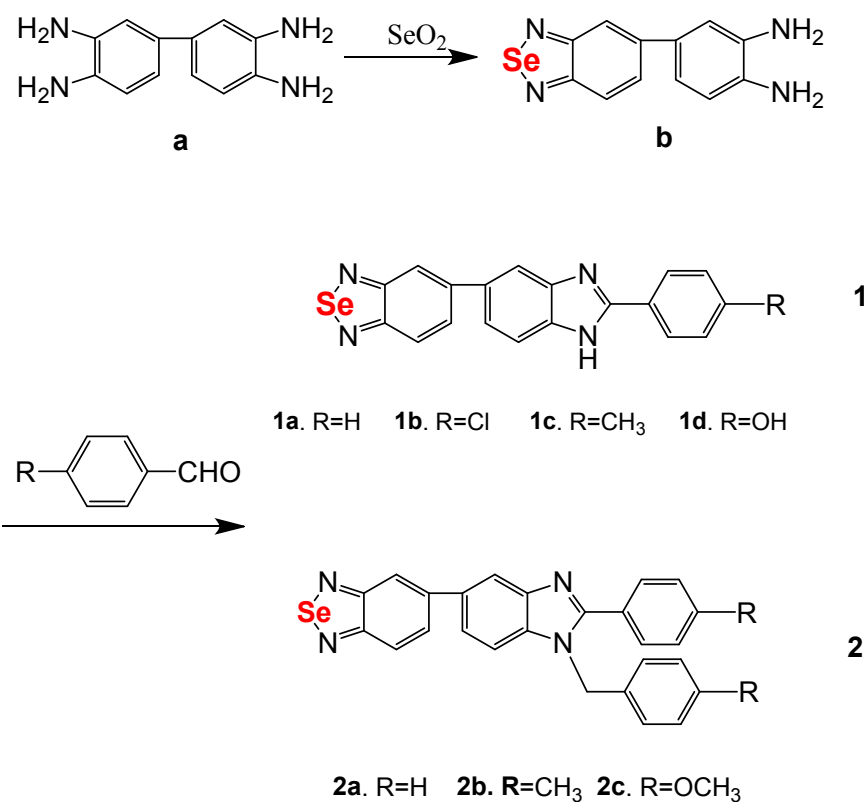| MCF-7 / Glucose	IC$_{50}$ (µM)				
	DOX	Cisplatin	CCUN	CTX	PTX
1000	0.9	39.61	595.6	2169	8.281
1980	1.12	57.63	612.6	2134	8.67
4500	1.4	66.58	548.6	2388	9.013

Glu: Glucose

Table S2. Cytotoxic effects of benzo[c][1,2,5]selenadiazole derivatives on MCF-7 cells for 48 h incubation.

MCF-7 / Glucose	IC$_{50}$ (µM)						
	1a	1b	1c	1d	2a	2b	2c
1000	22.3	6.8	46.8	89.07	57.9	39.9	4.5
1980	25.75	9.7	52.1	95.2	61.1	42.1	4.8
4500	29.77	11.75	56.98	103.7	63.7	44.53	6.15

Table S3. Cytotoxic effects of benzo[c][1,2,5]selenadiazole derivatives on normal cell lines for 48 h incubation

Cell	IC_{50} (µM)						
lines	**1a**	**1b**	**1c**	**1d**	**2a**	**2b**	**2c**
MCF-7	29.77	11.75	56.98	103.7	63.7	44.53	6.15
HK-2[#]	>400	106	>400	>400	>400	280	141

1a. R=H   **1b**. R=Cl   **1c**. R=CH$_3$ **1d**. R=OH

2a. R=H   **2b. R**=CH$_3$ **2c**. R=OCH$_3$

Figure S1. Synthetic route of **1a-1d**, **2a-2c**.