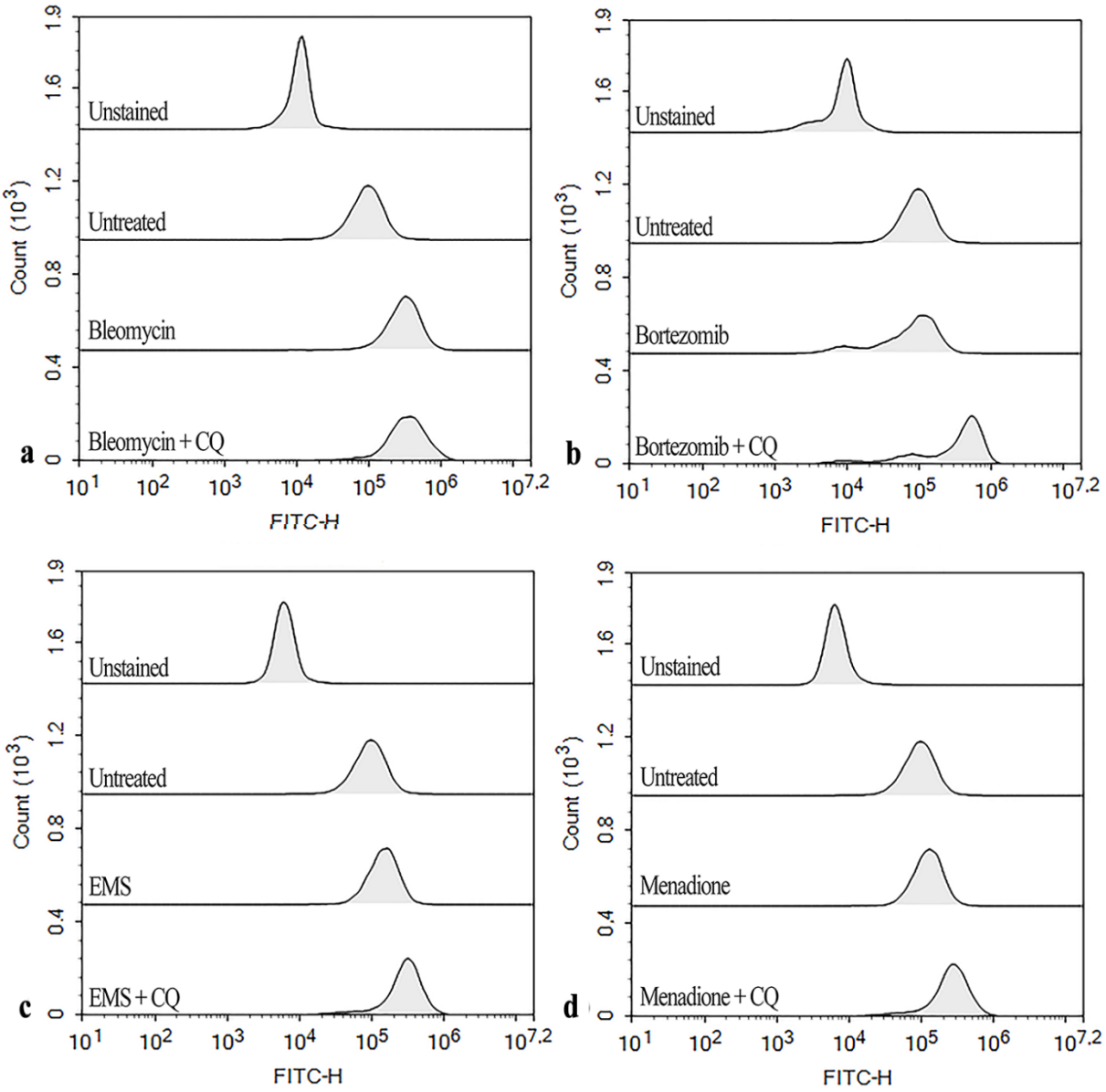

Figure 1S: Autophagic pathway induction evaluated through flow cytometry in U937 cell line after a 24h treatment with 24 μM Bleomycin (a), 0.1 μM Bortezomib (b), 1.1 mM ethyl methansulphonate (c) and 1.1 μM Menadione (d). The accumulation of autophagic vesicles were induced trough the treatment with the autophagy inhibitor, 10 μM chloroquine. 20000 events were collected for every tested condition through the NovoCyte Flow Cytometer (ACEA, Biosciences, Inc.).

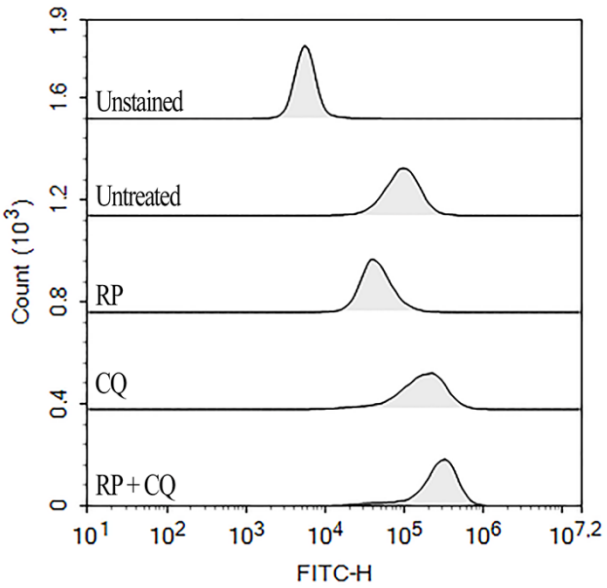

Figure 2S: Autophagic pathway induction evaluated through flow cytometry in U937 cell line after 18h treatment with 10 µM chloroquine and 0.1 µM rapamycin. The co-treatment with chloroquine and rapamycin is performed to confirm that chloroquine, inducing the autophagic vesicles accumulation in the cytoplasm, allows to detect the action of rapamycin in triggering autophagic vesicles development. 20000 events were collected for every tested condition through the NovoCyte Flow Cytometer (ACEA, Biosciences, Inc.).