

Figure S1: Size distribution of BSAF

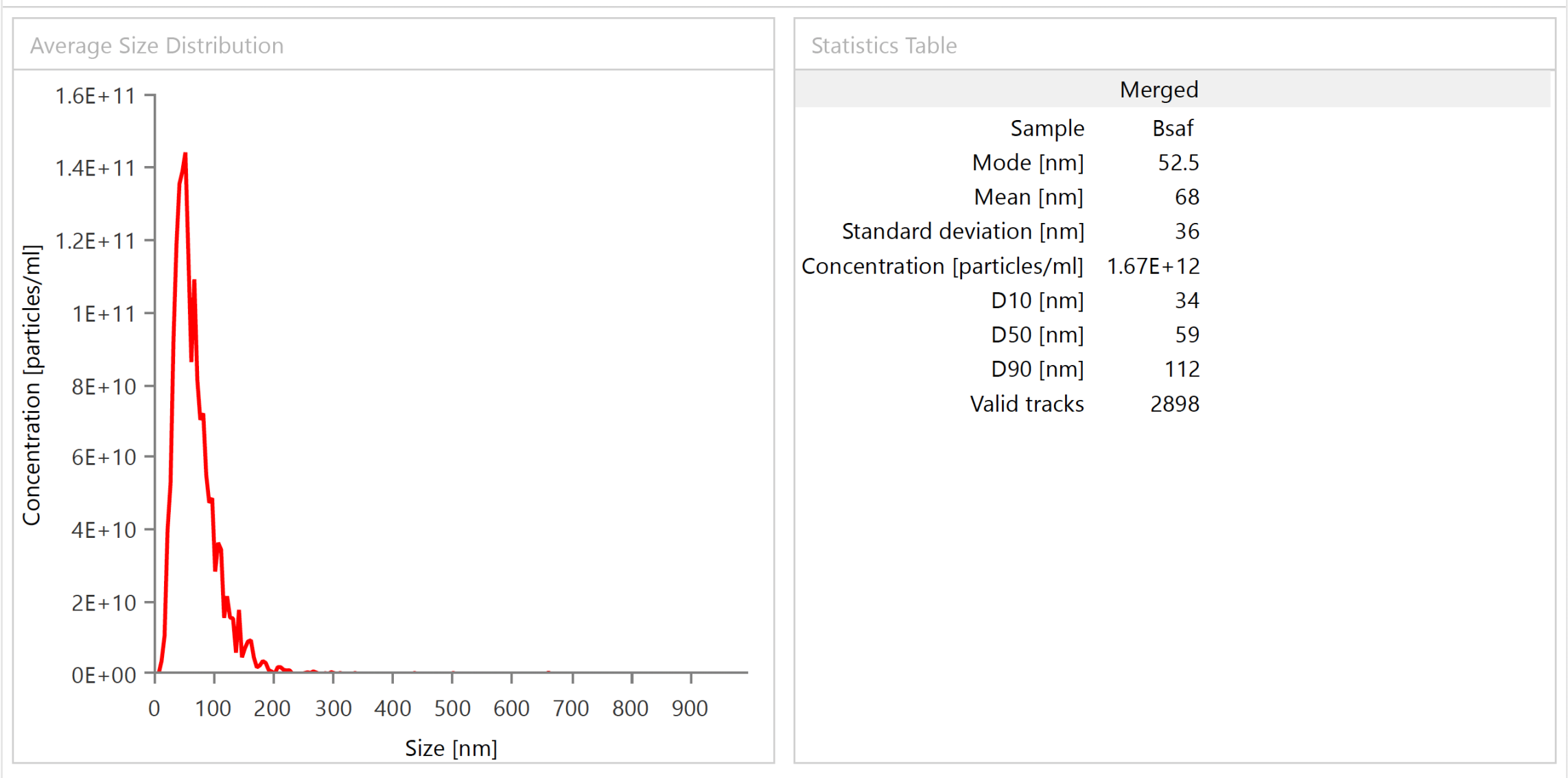


Figure S2: Viability assay on MG63 cells after 72 hours treatment with BSA₀ at the same concentrations as BSAF.

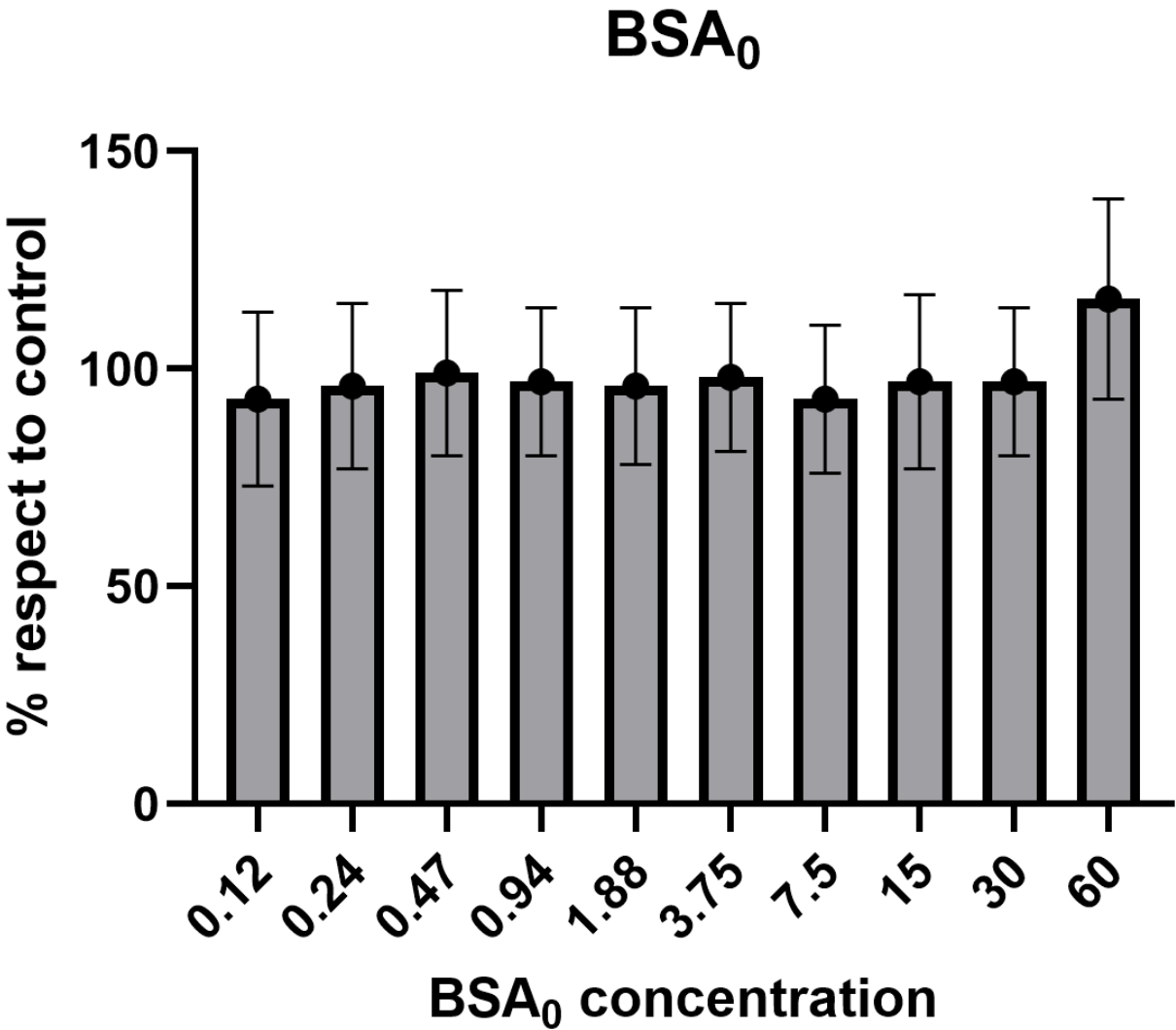
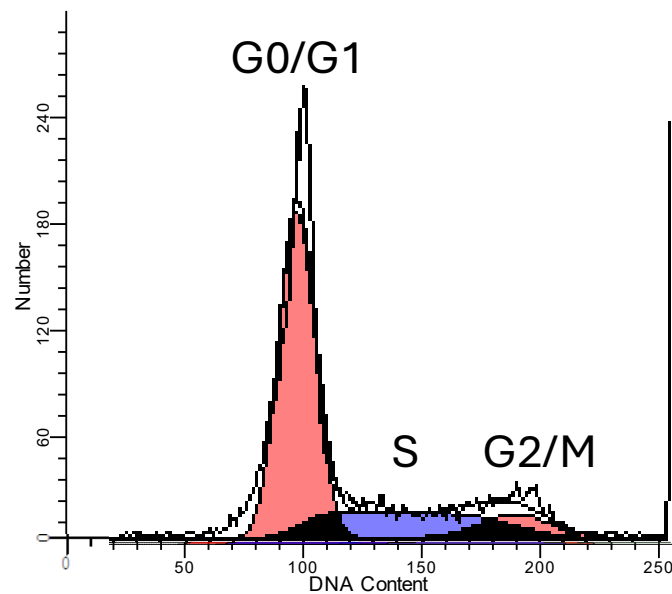
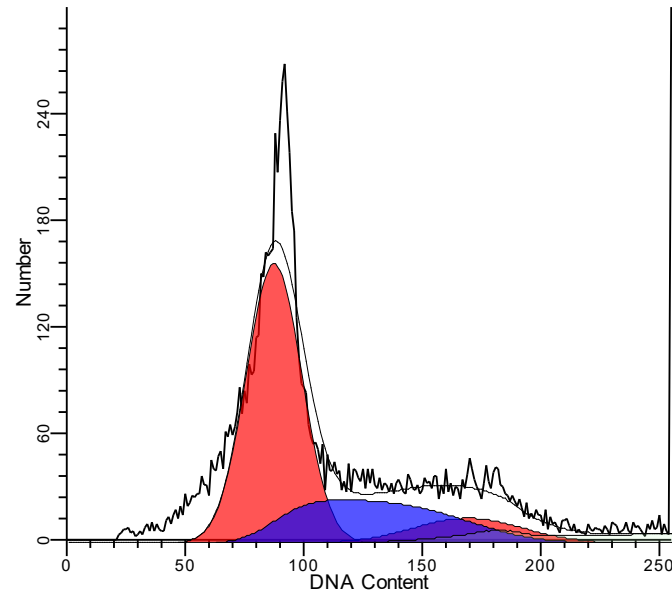


Figure S3: Cell cycle analysis in a typical experiment. The DNA distribution of MG63 nuclei stained with PI analyzed after 24 hours of treatment with BSAF.



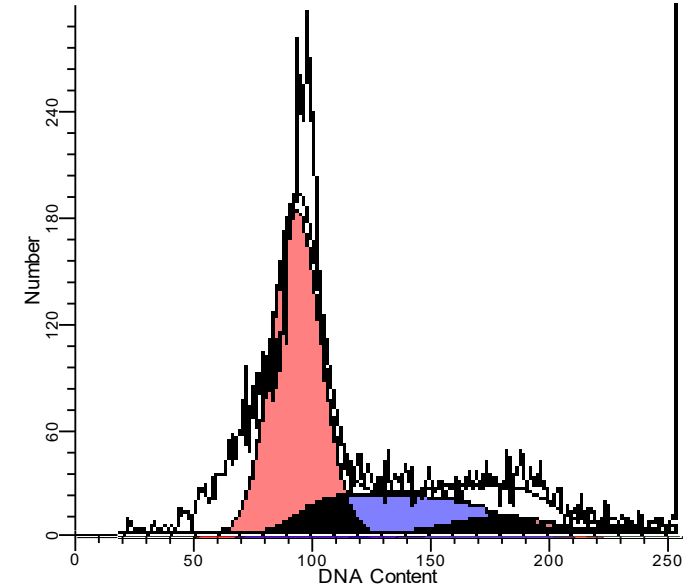
Control cells

G0/G1	61.85%
S	24.61 %
G2/M	9.54 %



BSAF treated cells

G0/G1	66.29 %
S	26.16 %
G2/M	7.55 %



Fen treated cells

G0/G1	71.08 %
S	21.38 %
G2/M	7.54 %

Figure S4: Flow cytometric assay of ROS production in a typical experiment. The fluorescent distribution of intracellular DCF was obtained by gating the cells in the reported regions where dead, Red PI fluorescence stained cells, were excluded.

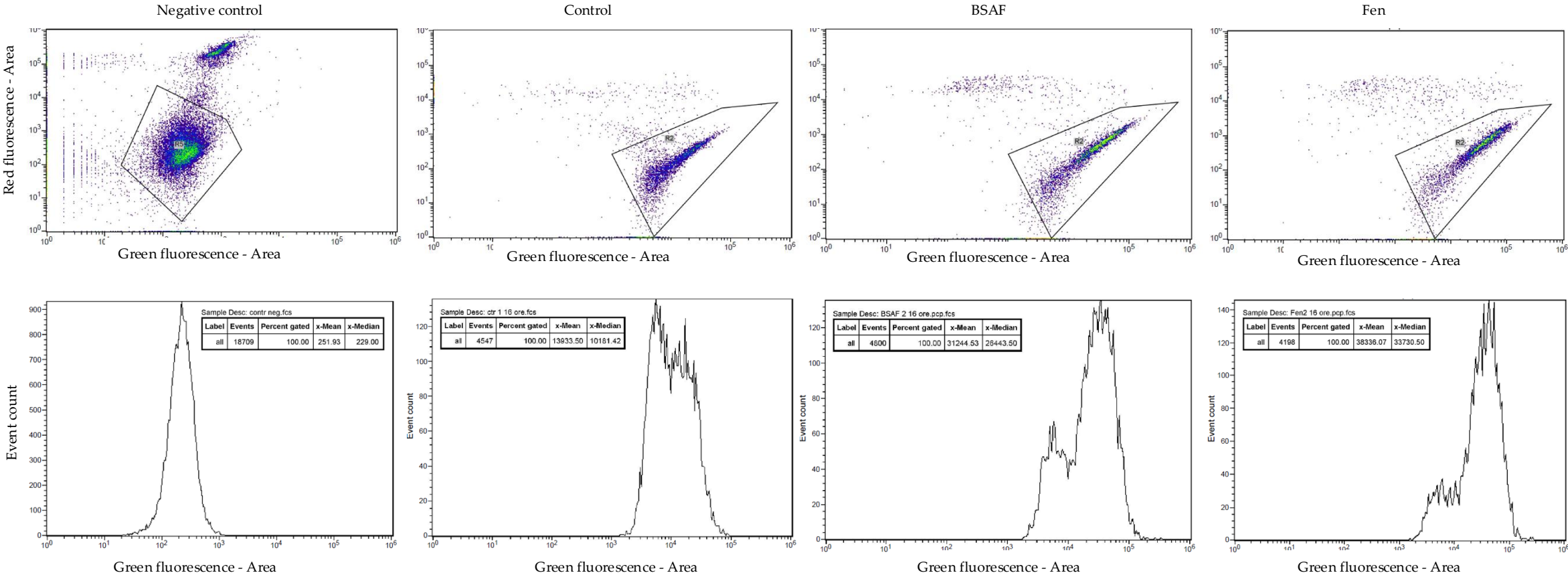


Table S1: Solubility of Fen and BSAF in water and PBS pH 7.4

Solvent type	Solubility of Fen mg/mL	Solubility of Fen as BSAF mg/mL
water	0.0017	25.9 ± 1.3
PBS	0.0016	26.4 ± 0.8