

Table 1. Cerulenin-induced blockade of fatty acid synthase activity enhances the efficacy of Trastuzumab in HER-2/neu-overexpressing breast cancer cells

SK-Br3

Cerulenin, $\mu\text{g/ml}$	Trastuzumab IC_{30} , $\mu\text{g/ml}^*$	Sensitization factor [†]
0	40.0 ± 3.0	-
0.5	3.20 ± 1.0	12
1	0.90 ± 0.5	44
1.5	0.20 ± 0.1	200
2	-	-

BT-474

Cerulenin, $\mu\text{g/ml}$	Trastuzumab IC_{30} , $\mu\text{g/ml}^*$	Sensitization factor [†]
0	21.0 ± 2.0	-
0.5	3.80 ± 1.0	5
1	1.00 ± 0.5	21
1.5	0.45 ± 0.2	47
2	0.40 ± 0.1	52

SK-Br3 and BT-474 cells were incubated with serial dilutions of trastuzumab in the absence or presence of a given concentration of cerulenin for 72 h.

* IC_{30} is the concentration of trastuzumab which decreased cell viability by 30%, measured as described in Materials and Methods. Values are mean \pm SD of five independent experiments made in triplicate.

[†] Sensitization factors were obtained by dividing IC_{30} values of trastuzumab alone by those when cerulenin was supplemented.