

The biological activity of bispecific trastuzumab/pertuzumab plant biosimilars may be drastically boosted by disulfiram increasing formaldehyde accumulation in cancer cells

Tatiana V. Komarova^{1,2,‡}, Ekaterina V. Sheshukova^{1,‡}, Ekaterina N. Kosobokova³, Vyacheslav S. Kosorukov³, Anastasia V. Shindyapina^{1,2,&}, Fedor A. Lipskerov^{1,2}, Polina S. Shpudeiko^{1,2}, Tatiana E. Byalik⁴ and Yuri L. Dorokhov^{1,2*}

¹Vavilov Institute of General Genetics Russian Academy of Sciences, 119991, Moscow, Russia

²A.N. Belozersky Institute of Physico-Chemical Biology, Lomonosov Moscow State University, 119991 Moscow, Russia

³Blokhin Cancer Research Center, 115478 Moscow, Russia

⁴I.M.Sechenov First Moscow State Medical University, 119991 Moscow, Russia

Supplementary Table 1. Oligonucleotides used for cloning and qRT-PCR.

| Name | Sequence |
|------------------------------|---|
| VLC-Pert_BsaI_dir | GGTCTCAGATATACAAATGACAC |
| VLC-Pert_Acc65I_rev | CTATACTTTCGGACAGGGTACC |
| VLC-Tras_linker_BsaI_rev | CCATCTGTCTTCATCGATATGAGACC |
| SP-mAbs_NcoI_dir | CCATGGGATGGAGCTGTATCATC |
| VHC-Pert_link_end_BsaI_dir | GGTCTCAGCCCCAGTGTTTTTGAGGTACAACCTTGTGGAG |
| HC-const_ApaI_rev | CGGCAAGCACTAAGGGCCC |
| VHC-Tras_link_start_BsaI_rev | CTTCTATGCTATGGACGTGGCCTCAACTAAAGGCCCTGAGACC |
| RPL32_dir | CATCTCCTTCTCGGCATCA |
| RPL32_rev | AACCCTGTTGTCAATGCCTC |
| ALDH2_dir | TGCTATGATGTGTTTGGAG |
| ALDH2_rev | TTCTTATGAGTTCTTCTGAGG |