

Supplementary Figure S2.

Cystathionine and homocysteine rescue NSCLC cell viability under cystine starvation (related to Fig. 1). **A**, Measurement of relative NSCLC cell number under cystine-replete (200 μ M) or cystine-starved (0 μ M) conditions supplemented with 1 mM cystathionine or 1 mM homocysteine. **B**, Measurement of relative NSCLC cell number under cystine-starved condition treated with cystathionine or homocysteine in the presence or absence of 100 μ M of propargylglycine. Relative cell number was determined by crystal violet staining, followed by normalization to cystine-replete, untreated conditions. For **A** and **B**, data are presented as mean \pm SD. **C**, Labeled fraction of serine and concentration of homocysteine, cystathionine, cysteine, and glutathione after 24 h $^{13}\text{C}_3$ -serine labeling in H2009 under cystine-replete (200 μ M) or cystine-starved (0 μ M) condition supplemented with 1 mM cystathionine or 1 mM homocysteine. N=3 biological replicates for each condition. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, and **** $p < 0.0001$. Cys, cysteine; (Cys)₂, cystine; Cth, cystathionine; Hcy, homocysteine; PPG, propargylglycine; GSH, glutathione; Ser, serine.