

Figure S6

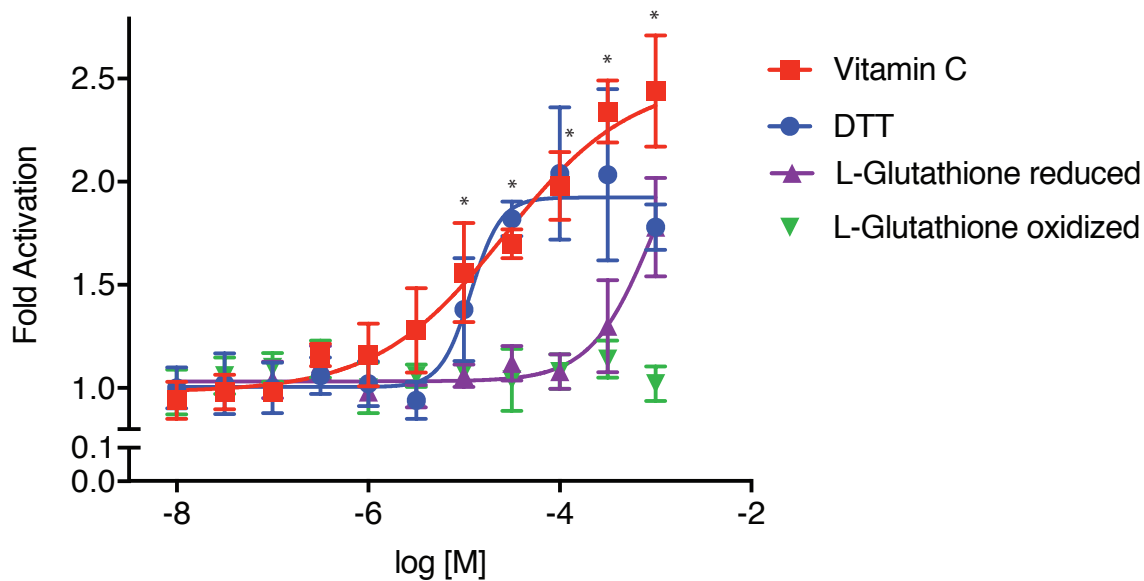


Figure S6. Effect of α -ketoglutarate on recombinant KDM3A activity with vitamin C, DTT and glutathione.

In vitro activity of recombinant KDM3A towards demethylation of a synthetic H3K9me1 peptide, in the presence of vitamin C, DTT or Glutathione, at $1\mu\text{M}$ α -KG (see Methods for details). At this lower concentration of α -KG, both vitamin C and DTT can enhance activity of KDM3A, but the effect of DTT saturates, whereas vitamin C does not. Data are means \pm SD. Asterisks are $P < 0.05$ by t-test for vitamin C compared to the oxidized form of Glutathione.