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 1μM 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 ± SD. Asterisks are P < 0.05 by t-test for vitamin C compared to the oxidized form of Glutathione.